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# 1982

## Census of Manufactures

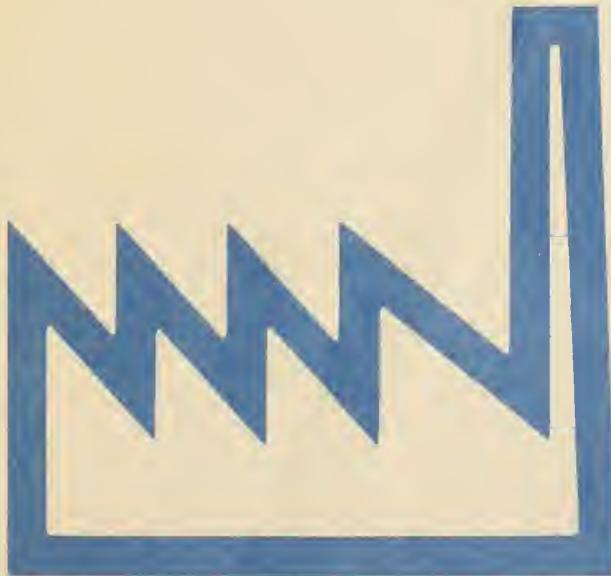
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MC82-I-25A

INDUSTRY SERIES

### Household Furniture

Industries 2511, 2512, 2514, 2515, 2517, and 2519



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1982

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The publications  
from the 1982 Economic and  
Agriculture Censuses are dedicated  
to the memory of Shirley Kallek,  
Associate Director for Economic Fields.  
During her career at the Bureau of the  
Census (1955 to 1983), she continually  
directed efforts to improve  
the timeliness and accuracy of  
economic statistics.

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# 1982

## Census of Manufactures

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MC82-I-25A  
INDUSTRY SERIES

## Household Furniture

- 2511 Wood Household Furniture
  - 2512 Upholstered Household Furniture
  - 2514 Metal Household Furniture
  - 2515 Mattresses and Bedsprings
  - 2517 Wood TV and Radio Cabinets
  - 2519 Household Furniture, N.E.C.
- 

Issued March 1985



**U.S. Department of Commerce**  
**Malcolm Baldrige**, Secretary  
**Clarence J. Brown**, Deputy Secretary  
**Sidney Jones**, Under Secretary for  
Economic Affairs

**BUREAU OF THE CENSUS**  
**John G. Keane**,  
Director

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Charles A. Waite, Associate Director for  
Economic Fields

John H. Berry, Assistant Director for  
Economic and Agriculture Censuses

INDUSTRY DIVISION  
Gaylord E. Worden, Chief

**ACKNOWLEDGMENTS**—Many persons participated in the various activities of the 1982 Census of Manufactures. Primary direction of the program was performed by Shirley Kallak, Associate Director for Economic Fields (until May 1983), Charles A. Waite, her successor, and Michael G. Farrall, Assistant Director for Economic and Agriculture Censuses (until August 1984), and John H. Berry, his successor.

This report was prepared in the Industry Division under the general direction of Roger H. Buganhagan, Chief (until April 1983), and Gaylord E. Worden, his successor. John P. Govoni, Assistant Chief for Census/Annual Survey of Manufactures (ASM) Programs, was responsible for the overall management of the census of manufactures. He guided the planning and implementation of the project and coordinated activities with other divisions.

Program responsibility was shared by the following individuals who participated importantly in the entire program: John P. McNamee, Chief, Minerals Branch; Dale W. Gordon, Chief, Census/ASM Durables Branch; Michael J. Zampogna, Chief, Census/ASM Nondurables Branch; Bernard J. Fitzpatrick, Chief, Census Special Reports Branch (until April 1983); and Bruce M. Goldhirsch, his successor; Kenneth I. Hansen, Chief, Annual Survey of Manufacturers Branch; Malcolm E. Bernhardt, Chief, Current Durables Branch; and Carole A. Amblar, Chief, Current Nondurables Branch.

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Publication planning, design, editorial review, composition, and printing procurement were performed in the Publications Services Division, Raymond J. Koski, Chief.

Geographic coding procedures and associated computer programs were developed in the Geography Division, Robert W. Marx, Chief.

Mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review were performed in the Data Preparation Division, Don L. Adams, Chief.

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# INTRODUCTION

## ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was again taken for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was obtained first in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was taken first for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service industries was broadened from "selected services" to "all services, except religious organizations and private households." A total of 41 additional four-digit standard industrial classifications' (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was introduced first in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the

Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

## USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are disseminated widely by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

## AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

'Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-00500176-0.

# CENSUS OF MANUFACTURES

## General

The 1982 Census of Manufactures is the 31st census of manufactures of the United States. For 1982, it was conducted jointly with the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses.

This report, from the 1982 Census of Manufactures, is one of a series of 82 industry reports, each of which provides statistics for groups of related industries. Additional separate reports will be issued for each State and on special subjects, such as size of establishments, legal form of organization, and fuels and electric energy consumed.

These separate reports will subsequently be issued as portions of the final census volumes. Volume I, Subject Statistics, will show comparative statistics for industries, States, and standard metropolitan statistical areas. It also will show selected subjects, such as concentration ratios in manufacturing, selected materials consumed, manufacturing activity in government establishments, and water use in manufacturing. Volume II, Industry Statistics, will be a consolidation of reports for the 82 groups of industries showing the same information that is shown in this report. Volume III, Geographic Area Statistics, will contain establishment-based data (number of establishments, employment, payroll, value added by manufacture, and capital expenditures) for each State and its important standard metropolitan statistical areas, counties, and places, by industry groups and important individual industries. Totals for "all manufacturing" will be shown for counties and places with more than 450 manufacturing employees. The introduction to the final volumes will discuss, at greater length, many of the subjects described in this introduction. For example, the volume text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

## Scope of Census and Definition of Manufacturing Industries

The 1982 Census of Manufactures covers all establishments employing one person or more primarily engaged in manufacturing as defined in the 1972 Standard Industrial Classification (SIC) Manual and its 1977 Supplement.<sup>1</sup> This is the system of industrial classification developed over a period of years by experts on classification in government and private industry under the guidance of the Office of Management and Budget. This system of classification is in general use among government agencies as well as organizations outside the government.

The SIC manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use power-driven machines and materials handling equipment.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-00500176-0.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for the trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

## Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is based on a scientifically selected sample of approximately 55,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply detailed information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services.

## Establishment Basis of Reporting

The census of manufactures and the annual survey of manufactures are conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1982, as in earlier years, a minimum size limit was set for including establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

## Manufacturing Universe and Census Report Forms

The 1982 Census of Manufactures universe includes approximately 345,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in this publication are described below.

### 1. Small Single-Unit Companies Not Sent a Report Form

In the 1982 Census of Manufactures, approximately 140,000 small single-establishment companies were excused from filing reports. Selection of these small

establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of other Federal agencies. The cutoffs were selected so that these administrative records cases would account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed report forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative record cases were given only a two- or three-digit SIC group. For the 1982 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassifications have no significant effect on the statistics other than on the number of establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

## 2. Establishments Sent a Report Form

The 205,000 establishments covered in the mail canvass were divided into three groups:

a. **ASM sample establishments**—This group consisted of approximately 55,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll,

and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. Results of the ASM inquiries are included in tables 3c and 3d of this report.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the approximately 450 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries, as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space was also provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

### b. Large and medium establishments (non-ASM)—

Approximately 100,000 establishments were included in this group. A variable cutoff, based on administrative records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

### c. Small single-unit establishments (non-ASM)—

This group consisted of approximately 50,000 establishments. For those industries where application of the variable cutoff for administrative records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same

data were collected on the short as well as the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the values of the n.s.k. categories.

## Auxiliaries

In this industry report, the data on employment and payroll are limited to operating manufacturing establishments. The census report form filed for auxiliaries (ES-9200) requested a description of the activity of the establishments serviced. However, the auxiliaries were coded only to the two-digit major group of the establishments they served; whereas, the operating establishments were coded to a four-digit manufacturing industry. Data for the approximately 10,000 separately operated auxiliaries are included in the paperbound geographic area series, the bound volumes of the census of manufactures, and in a report issued as part of the 1982 Enterprise Statistics survey.

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two or more establishments. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting, tax accounting, company sales and profit reports, and personnel accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

## Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 450 manufacturing industries in accordance with the industry definitions in the SIC system. Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of plants must be significant in terms of its number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively became narrower with successive additions of numerical digits. There are 20 major groups (two-digit SIC), 143 industry groups (three-digit SIC), and approximately 450

industries (four-digit SIC). The product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 1,500 classes of products, identified by a five-digit code, and about 11,000 products, identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in making those products. For example, establishments engaged in blast furnace operations, refining of nonferrous metals from ore, or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for two successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is true particularly for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) shown in tables 1a through 5a, therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities. The product statistics in tables 6a through 6c represent the output of all establishments whether or not they are classified in the same industry as the product. For this reason, in relating the industry statistics, especially the value of shipments to the product statistics, the

composition of the industry's output shown in table 5b should be considered.

The extent to which industry and product statistics may be matched with each other is measured by two ratios, which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfer of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

## Value of Shipments for the Industry Compared With Value of Product Shipments

This industry report shows value of shipments data for industries and products. In tables 1a through 5a, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Product shipments shown in table 6a represent the total value of shipments of products classified as primary to an industry that were shipped by all manufacturing establishments regardless of their industry classification.

## CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this item may be given even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1a through 5a of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line has been suppressed. However, the suppressed data are included in higher level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

## MICROFICHE AND COMPUTER TAPES

All the data in this report are available on microfiche. Selected data are also available on computer tape.

In addition to selected published data being on computer tape, one major data series, the location of manufacturing plants, will be available only on computer tape. This series presents the number of establishments by employment size class by four-digit SIC industry codes for States, counties, and places of 2,500 inhabitants or more. These data are available for both State and county by industry, and State and place by industry.

Microfiche reports are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Computer tapes are sold by the Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

## SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- pt. Part.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

# Users' Guide for Locating Statistics

[For explanation of terms, see appendixes]

	Item	Four-digit industry statistics		
		Historical	Operating ratios	By geographic area
1	Number of companies.....	1a		
2	Number of manufacturing establishments .....	1a		2
	Employment and payroll:			
3	Number of employees .....	1a	1b	2
4	Payroll .....	1a	1b	2
5	Supplemental labor costs.....			
6	Production workers .....	1a	1b	2
7	Production-worker hours .....	1a	1b	2
8	Production-worker wages .....	1a	1b	2
	Shipments, cost of materials, and value added:			
9	Value of shipments (four-digit).....	1a	1b	2
10	Product class shipments (five-digit) .....			
11	Product shipments (seven-digit) .....			
12	Value added by manufacture .....	1a	1b	2
13	Cost of materials .....	1a	1b	2
14	Fuels and electric energy.....			
15	Materials consumed by kind .....			
	Inventories:			
16	Total, end of year .....	1a		
17	By method of valuation .....			
18	By stage of fabrication .....			
	Capital expenditures, assets, rental payments, and purchased services:			
19	New capital expenditures .....	1a		2
20	Used plant and equipment expenditures .....			
21	Gross assets .....	1a	1b	
22	Depreciation .....			
23	Retirements of buildings and machinery .....			
24	Rental payments .....			
25	Purchased services .....			
	Ratios:			
26	Specialization .....	1a		
27	Coverage .....	1a		

\*Number of companies with shipments of over \$100 thousand.

\*\*Detailed information shown.

# in This Report by Table Number

Four-digit industry statistics—Con.				Five-digit product class and seven-digit product statistics				
Summary and supplemental	By employment size	By industry and product class specialization	Materials consumed by kind	Industry-product analysis	Product shipments	Product class by geographic area	Historical product class	
3a **3a	4	5a			*6a			12
3a 3a **3d **3a **3a 3a	4	5a 5a 5a 5a 5a						3 4 5 6 7 8
3a	4	5a		5b, 5c 5b, 5c	6a 6a	6b	6c	9 10 11 12 13 14 15
3a **3a 3a, 3d	4	5a 5a		7				
3b, 3c 3b, 3c 3b	4							16 17 18
**3a, **3d **3a, **3d **3d **3d **3d **3d **3d **3d	4	5a						19 20 21 22 23 24 25
3a 3a				5b 5b				26 27



# Household Furniture

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# DESCRIPTION OF INDUSTRIES AND SUMMARY OF FINDINGS

## HOUSEHOLD FURNITURE

This report shows 1982 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

2511	Wood Household Furniture
2512	Upholstered Household Furniture
2514	Metal Household Furniture
2515	Mattresses and Bedsprings
2517	Wood TV and Radio Cabinets
2519	Household Furniture, N.E.C.

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1a-5a) with product statistics (table 6a) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Small single-unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other government agencies. The remaining statistics were developed from industry averages.

Establishment data were tabulated based on industry definitions contained in the 1972 Standard Industrial Classification (SIC) Manual and its 1977 supplement.<sup>1</sup>

## INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of wood household furniture commonly used in dwellings. This industry also includes establishments primarily engaged in the manufacture of wood outdoor furniture and infants' and children's wood furniture. Establishments primarily engaged in the manufacture of kitchen cabinets are classified in Industry 2434, Wood Kitchen Cabinets; upholstered furniture in Industry 2512, Upholstered Household Furniture; reed and rattan furniture in Industry 2519, Household Furniture, Not Elsewhere Classified; and television, radio, phonograph, audio

speakers, and sewing machine cabinets in Industry 2517, Wood TV, Radio, Phonograph, and Sewing Machine Cabinets.

In the 1982 Census of Manufactures, Industry 2511, Wood Household Furniture, recorded employment of 125.6 thousand. The total value of shipments for establishments classified in this industry was \$5.1 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 11 percent below the 140.8 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, Virginia, California, and Tennessee, accounting for 59 percent of the industry's 1982 employment. These same States were the leaders in 1977, when they accounted for 56 percent of the industry's employment.

Compared with 1981, employment decreased 7 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2511 shipped \$4.6 billion of products primary to the industry, \$258 million of secondary products, and had \$167 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 95 percent (specialization ratio). In 1977, this specialization ratio was 94 percent.

Establishments in this industry also accounted for 96 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio also was 96 percent. The products primary to industry 2511, no matter in what industry they were produced, appear in table 6a and aggregate to \$4.8 billion in current prices.

The total cost of materials and services used by establishments classified in the wood household furniture industry amounted to \$2.3 billion in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 18 percent of total value of shipments.

## INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of upholstered furniture on wood frames.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.

Establishments primarily engaged in the reupholstering of furniture or upholstering frames to individual order are classified in nonmanufacturing industries. Establishments primarily engaged in the manufacture of wood frames for upholstered furniture are classified in Industry 2426, Hardwood Dimension and Flooring. Establishments primarily engaged in the manufacture of dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds are classified in Industry 2515, Mattresses and Bedsprings, regardless of the material used in the frame.

In the 1982 Census of Manufactures, Industry 2512, Upholstered Household Furniture, recorded employment of 70.6 thousand. The total value of shipments for establishments classified in this industry was \$3.5 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 21 percent below the 89.1 thousand reported in 1977. The leading States in employment in 1982 were North Carolina, Mississippi, California, and Tennessee, accounting for approximately 65 percent of the industry's 1982 employment. These same States were the leaders in 1977, when they accounted for approximately 60 percent of the industry's employment, although there has been some shift in the relative importance of individual States.

Compared with 1981, employment decreased 15 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2512 shipped \$3.1 billion of products primary to the industry, \$317 million of secondary products, and had \$39 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 91 percent (specialization ratio). In 1977, this specialization ratio also was 91 percent.

Establishments in this industry also accounted for 95 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 96 percent. The products primary to industry 2512, no matter in what industry they were produced, appear in table 6a and aggregate to \$3.3 billion in current prices.

The total cost of materials and services used by establishments classified in the upholstered household furniture industry amounted to \$1.8 billion in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 16 percent of total value of shipments.

## INDUSTRY 2514, METAL HOUSEHOLD FURNITURE

This industry comprises establishments primarily engaged in the manufacture of metal household furniture, whether padded

or plain, of a type commonly used in dwellings. Establishments primarily engaged in the manufacture of dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in Industry 2515, Mattresses and Bedsprings, regardless of the material used in the frame.

In the 1982 Census of Manufactures, Industry 2514, Metal Household Furniture, recorded employment of 27.0 thousand. The total value of shipments for establishments classified in this industry was \$1.6 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 19 percent below the 33.2 thousand reported in 1977. The leading States in employment in 1982 were California, North Carolina, Illinois, and Indiana, accounting for approximately 43 percent of the industry's 1982 employment. This represents a shift from 1977 when California, Illinois, North Carolina, and New York accounted for approximately 42 percent of the industry's employment.

Compared with 1981, employment decreased 9 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2514 shipped \$1.4 billion of products primary to the industry, \$168 million of secondary products, and had \$29 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 89 percent (specialization ratio). In 1977, this specialization ratio also was 89 percent.

Establishments in this industry also accounted for 92 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 91 percent. The products primary to industry 2514, no matter in what industry they were produced, appear in table 6a and aggregate to \$1.5 billion in current prices.

The total cost of materials and services used by establishments classified in the metal household furniture industry amounted to \$774 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 18 percent of total value of shipments.

## INDUSTRY 2515, MATTRESSES AND BEDSPRINGS

This industry comprises establishments primarily engaged in the manufacture of innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, foam rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and

cots. This industry also includes establishments primarily engaged in the manufacture of dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in the manufacture of automobile seats and backs are classified in Industry 2531, Public Building and Related Furniture; individual wire springs in Industry 3495, Wire Springs; and paddings and upholstery filling in Industry 2293, Paddings and Upholstery Filling.

In the 1982 Census of Manufactures, Industry 2515, Mattresses and Bedsprings, recorded employment of 25.4 thousand. The total value of shipments for establishments classified in this industry was \$1.9 billion.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 6 percent below the 27.0 thousand reported in 1977. The leading States in employment in 1982 were California, Texas, New Jersey, and Georgia, accounting for approximately 38 percent of the industry's 1982 employment. This represents a shift from 1977 when California, Texas, Ohio, and New Jersey accounted for approximately 33 percent of the industry's employment.

Compared with 1981, employment decreased 10 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2515 shipped \$1.8 billion of products primary to the industry, \$102 million of secondary products, and had \$33 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 95 percent (specialization ratio). In 1977, this specialization ratio also was 95 percent.

Establishments in this industry also accounted for 88 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 86 percent. The products primary to industry 2515, no matter in what industry they were produced, appear in table 6a and aggregate to \$2.0 billion in current prices.

The total cost of materials and services used by establishments classified in the mattresses and bedsprings industry amounted to \$1.0 billion in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 25 percent of total value of shipments.

## INDUSTRY 2517, WOOD TV AND RADIO CABINETS

This industry comprises establishments primarily engaged in the manufacture of wood cabinets for radios, television sets,

phonographs, audio speakers, and sewing machines. Establishments primarily engaged in the manufacture of wood household furniture are classified in Industry 2511, Wood Household Furniture.

In the 1982 Census of Manufactures, Industry 2517, Wood TV and Radio Cabinets, recorded employment of 7.0 thousand. The total value of shipments for establishments classified in this industry was \$307 million.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 35 percent below the 10.7 thousand reported in 1977. The leading States in employment in 1982 were Indiana, Tennessee, California, and Missouri, accounting for approximately 70 percent of the industry's 1982 employment. Data for Indiana, Tennessee, and Missouri have been withheld to avoid disclosing data for individual companies. This represents a shift from 1977 when Indiana, California, Tennessee, and Arkansas accounted for approximately 80 percent of the industry's employment.

Compared with 1981, employment decreased 10 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as resales and contract receipts. In current prices, industry 2517 shipped \$276 million of products primary to the industry, \$27 million of secondary products, and had \$4 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 91 percent (specialization ratio). In 1977, this specialization ratio was 92 percent.

Establishments in this industry also accounted for 91 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 90 percent. The products primary to industry 2517, no matter in what industry they were produced, appear in table 6a and aggregate to \$302 million in current prices.

The total cost of materials and services used by establishments classified in the wood TV and radio cabinets industry amounted to \$152 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 13 percent of total value of shipments.

## INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.

This industry comprises establishments primarily engaged in the manufacture of reed, rattan and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture, not elsewhere classified.

In the 1982 Census of Manufactures, Industry 2519, Household Furniture, N.E.C., recorded employment of 7.4 thousand. The total value of shipments for establishments classified in this industry was \$381 million.

The value of shipments figure shown above is in current (1982) prices. All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The employment figure shown above was 15 percent below the 8.7 thousand reported in 1977. The leading States in employment in 1982 were Indiana, Florida, Ohio, and California, accounting for approximately 50 percent of the industry's 1982 employment. Data for Indiana and Ohio have been withheld to avoid disclosing data for individual companies. This represents a shift from 1977 when Indiana, California, Illinois, and Ohio accounted for approximately 55 percent of the industry's employment.

Compared with 1981, employment decreased 20 percent. The 1981 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

Establishments in virtually all industries ship secondary products as well as products primary to the industry to which they are classified and have some miscellaneous receipts, such as

resales and contract receipts. In current prices, industry 2519 shipped \$302 million of products primary to the industry, \$73 million of secondary products, and had \$6 million of miscellaneous receipts. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in the industry was 80 percent (specialization ratio). In 1977, this specialization ratio was 79 percent.

Establishments in this industry also accounted for 93 percent of products considered primary to the industry no matter where they actually were produced (coverage ratio). In 1977, the coverage ratio was 84 percent. The products primary to industry 2519, no matter in what industry they were produced, appear in table 6a and aggregate to \$325 million in current prices.

The total cost of materials and services used by establishments classified in the household furniture, n.e.c., industry amounted to \$226 million in current prices. Data on specific materials consumed appear in table 7.

Establishments of single-unit companies in this industry with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 29 percent of total value of shipments.

**Table 1a. Historical Statistics for the Industry: 1982 and Earlier Years**

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year <sup>1</sup>	Com- pa- nies <sup>2</sup> (no.)	All establish- ments <sup>3</sup>		All employees		Production workers			Value added by manufac- ture <sup>4</sup> (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	Ratios		
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Spec- cial- ization (per- cent)	Cover- age (per- cent)	
<b>INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE<sup>6</sup></b>															
1982 Census-----	2 430	2 607	833	125.6	1 402.7	109.2	197.2	1 070.6	2 715.0	2 317.8	5 056.6	119.1	1 162.4	95	96
1981 ASM-----	(NA)	(NA)	134.7	1 478.1	116.8	1 224.6	1 142.9	2 885.6	2 489.1	5 321.7	125.1	1 115.9	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	138.1	1 370.0	119.5	225.9	1 047.8	2 708.2	2 325.9	5 008.5	136.8	1 004.2	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	140.1	1 334.3	122.1	240.5	1 035.8	2 670.7	2 327.4	4 942.3	153.8	1 001.5	(NA)	(NA)	
1978 ASM-----	(NA)	(NA)	147.0	1 296.3	128.6	255.0	1 014.6	2 586.8	2 333.6	4 864.4	140.7	946.9	(NA)	(NA)	
1977 Census-----	2 796	2 982	815	140.8	1 137.3	124.6	244.5	897.3	2 235.0	1 931.2	4 140.3	101.6	821.2	94	96
1976 ASM-----	(NA)	(NA)	137.9	1 041.3	121.1	232.1	816.2	1 999.4	1 822.6	3 780.1	91.6	722.5	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	123.5	865.8	108.2	200.6	671.0	1 575.2	1 461.0	3 095.4	81.0	651.0	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	138.2	927.2	121.7	238.5	733.3	1 808.4	1 647.1	3 381.0	148.8	717.0	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	135.1	905.4	126.8	255.3	715.0	1 709.4	1 530.1	3 201.3	115.1	632.2	(NA)	(NA)	
1972 Census-----	2 173	2 348	827	133.6	806.8	118.8	240.9	642.3	1 556.9	1 355.1	2 870.0	93.8	513.2	94	95
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE</b>															
1982 Census-----	1 129	1 227	602	70.6	849.9	59.8	105.6	637.2	1 745.3	1 761.5	3 505.3	57.2	441.4	91	95
1981 ASM-----	(NA)	(NA)	83.2	959.3	70.3	127.9	721.1	1 892.9	1 980.0	3 860.0	84.6	451.2	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	69.0	959.2	75.0	141.6	724.6	1 739.4	1 974.6	3 721.6	722.3	430.0	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	95.0	951.9	61.4	150.2	715.9	1 747.6	1 899.2	3 641.6	67.1	459.3	(NA)	(NA)	
1976 ASM-----	(NA)	(NA)	89.4	863.3	76.2	141.8	656.4	1 679.3	1 750.8	3 429.6	66.5	400.0	(NA)	(NA)	
1977 Census-----	1 357	1 473	730	89.1	779.2	75.7	137.6	583.9	1 437.3	1 510.6	2 931.0	50.4	378.6	91	96
1976 ASM-----	(NA)	(NA)	79.2	658.2	67.6	123.6	491.1	1 207.2	1 246.5	2 445.9	47.3	306.7	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	74.4	597.0	63.4	115.8	440.8	1 068.2	1 111.0	2 186.1	25.6	286.4	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	88.5	635.3	75.3	138.2	477.3	1 173.6	1 422.2	2 309.8	45.4	318.7	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	94.9	652.0	80.5	151.6	497.9	1 173.3	1 106.1	2 273.4	47.9	300.9	(NA)	(NA)	
1972 Census-----	1 203	1 308	770	92.0	605.3	76.3	150.2	454.7	1 104.0	1 017.9	2 104.7	54.7	251.4	92	95
1971 ASM-----	(NA)	(NA)	84.3	525.9	72.5	142.7	402.9	938.4	670.0	1 809.2	24.8	211.9	(NA)	(NA)	
1970 ASM-----	(NA)	(NA)	83.7	493.5	72.1	139.1	376.3	886.2	795.9	1 687.4	55.5	199.6	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	83.5	461.7	72.2	139.6	350.4	839.1	718.9	1 555.3	28.5	176.6	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	80.3	425.1	69.9	135.1	326.4	779.8	664.1	1 440.4	23.1	159.4	(NA)	(NA)	
1967 Census-----	1 582	1 644	727	75.2	376.2	64.6	125.9	287.0	670.3	600.3	1 266.4	17.1	142.6	93	94
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE</b>															
1982 Census-----	413	454	205	27.0	362.4	21.5	41.6	240.3	807.0	774.1	1 590.7	25.4	277.7	89	92
1981 ASM-----	(NA)	(NA)	29.8	358.5	24.4	46.6	247.5	769.0	761.5	1 546.5	27.9	254.0	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	31.6	345.3	26.2	48.6	239.0	739.9	748.1	1 467.7	34.1	239.2	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	34.4	352.1	28.0	54.1	245.6	772.1	776.6	1 506.9	29.9	249.9	(NA)	(NA)	
1976 ASM-----	(NA)	(NA)	34.1	337.3	26.3	54.0	235.0	695.0	761.6	1 450.2	26.6	234.1	(NA)	(NA)	
1977 Census-----	405	448	213	33.2	302.2	27.4	51.6	208.6	637.4	684.0	1 307.1	22.6	217.0	69	91
1976 ASM-----	(NA)	(NA)	30.5	269.4	24.6	46.9	179.6	522.3	559.7	1 079.5	17.2	184.2	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	28.3	234.6	22.7	41.9	156.2	439.6	483.2	938.9	14.7	165.4	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	35.4	257.5	26.8	53.6	176.9	483.6	529.4	1 003.0	16.2	203.0	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	36.9	253.6	30.6	58.9	177.9	508.6	506.6	999.6	25.5	188.7	(NA)	(NA)	
1972 Census-----	427	467	230	34.4	222.5	26.6	53.7	157.6	447.2	452.4	690.4	16.9	133.6	90	91
1971 ASM-----	(NA)	(NA)	31.5	194.2	25.6	49.7	133.7	386.3	380.4	783.9	10.6	116.9	(NA)	(NA)	
1970 ASM-----	(NA)	(NA)	32.4	188.1	26.7	50.4	131.3	365.6	360.7	724.9	13.6	113.5	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	32.6	161.4	27.6	52.4	132.6	346.2	352.6	897.1	12.9	101.6	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	32.1	169.4	26.5	51.2	120.5	333.9	333.2	664.3	10.1	92.6	(NA)	(NA)	
1967 Census-----	464	486	251	31.0	155.5	25.6	50.3	109.6	291.3	312.0	605.3	10.1	83.6	90	90
<b>INDUSTRY 2515, MATTRESSES AND BEDSPRINGS</b>															
1982 Census-----	786	902	336	25.4	357.4	19.0	35.6	216.9	882.4	1 047.4	1 935.4	25.0	200.5	95	88
1981 ASM-----	(NA)	(NA)	26.3	367.9	21.1	40.1	220.5	1 027.1	1 154.8	2 171.6	736.3	259.0	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	27.6	341.3	20.6	39.2	205.0	894.6	1 024.6	1 934.6	23.0	238.9	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	26.6	333.2	21.7	42.1	202.7	610.6	683.9	1 760.1	20.5	190.9	(NA)	(NA)	
1976 ASM-----	(NA)	(NA)	26.7	303.9	20.7	39.2	190.5	659.2	838.6	1 499.5	22.7	165.4	(NA)	(NA)	
1977 Census-----	832	962	355	27.0	279.6	20.6	39.3	175.3	616.6	788.6	1 398.5	14.5	155.6	95	88
1976 ASM-----	(NA)	(NA)	25.6	252.3	19.8	36.0	160.7	563.9	672.4	1 231.3	13.6	130.5	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	25.0	228.3	19.5	36.7	144.5	495.3	612.2	1 110.5	20.9	120.6	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	26.2	233.3	21.9	41.4	147.6	538.0	612.4	1 145.7	17.3	133.0	(NA)	(NA)	
1973 ASM-----	(NA)	(NA)	33.6	259.0	26.2	50.4	167.6	538.1	659.5	1 197.2	721.9	138.5	(NA)	(NA)	
1972 Census-----	888	977	370	31.4	233.7	24.2	47.1	149.7	479.9	565.4	1 041.7	20.7	112.9	94	88
1971 ASM-----	(NA)	(NA)	32.4	221.0	25.1	49.0	144.3	449.0	523.2	968.9	25.2	107.1	(NA)	(NA)	
1970 ASM-----	(NA)	(NA)	31.2	202.1	24.0	47.6	129.0	390.7	456.9	849.6	72.5	95.3	(NA)	(NA)	
1969 ASM-----	(NA)	(NA)	33.1	204.1	25.6	51.6	132.7	394.5	477.6	869.4	716.1	96.1	(NA)	(NA)	
1968 ASM-----	(NA)	(NA)	32.1	194.6	25.0	49.7	127.2	376.3	456.6	833.6	11.6	90.3	(NA)	(NA)	
1967 Census-----	939	1 013	341	31.2	171.5	24.4	47.6	110.7	335.5	408.6	745.1	10.3	83.6	91	91
<b>INDUSTRY 2517, WOOD TV AND RADIO CABINETS<sup>6</sup></b>															
1982 Census-----	62	83	37	7.0	88.6	5.9	10.8	66.4	152.1	151.6	306.6	7.3	32.5	91	91
1981 ASM-----	(NA)	(NA)	7.0	84.7	6.1	11.9	65.9	149.6	143.9	291.9	4.6	29.3	(NA)	(NA)	
1980 ASM-----	(NA)	(NA)	7.5	60.5	6.5	12.3	63.9	139.9	139.0	279.0	7.3	26.9	(NA)	(NA)	
1979 ASM-----	(NA)	(NA)	6.4	61.4	7.1	13.1	62.5	123.7	126.5	261.7	6.4	27.2	(NA)	(NA)	
1976 ASM-----	(NA)	(NA)	10.2	100.7	6.9	17.1	61.1	158.2	193.4	340.7	7.3	38.7	(NA)	(NA)	
1977 Census-----	91	94	51	10.7	89.0	9.3	17.6	70.5	150.4	155.0	304.6	11.1	30.5	92	90
1976 ASM-----	(NA)	(NA)	10.3	72.1	9.0	16.9	58.7	147.3	143.2	290.7	2.4	35.2	(NA)	(NA)	
1975 ASM-----	(NA)	(NA)	9.1	60.9	7.7	14.2	46.4	117.5	116.0	240.6	2.2	33.7	(NA)	(NA)	
1974 ASM-----	(NA)	(NA)	15.1	94.9	12.7	23.7									

**Table 1a. Historical Statistics for the Industry: 1982 and Earlier Years—Con.**

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year <sup>1</sup>	Companies <sup>2</sup> (no.)	All establishments <sup>3</sup>		All employees		Production workers			Value added by manufacture <sup>4</sup> (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	End-of-year inventories <sup>5</sup> (million dollars)	Ratios	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Spec- cialization (per- cent)	Cover- age (per- cent)
<b>INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.</b>															
1982 Census	196	202	63	7.4	100.7	6.0	11.7	76.4	153.3	225.6	381.1	11.9	50.3	80	93
1981 ASM <sup>6</sup>	(NA)	(NA)	(NA)	9.2	121.6	7.7	15.2	90.0	199.6	267.3	466.5	17.6	53.2	(NA)	(NA)
1980 ASM <sup>6</sup>	(NA)	(NA)	(NA)	9.1	109.2	7.6	14.4	81.5	179.5	232.2	412.3	18.1	46.4	(NA)	(NA)
1979 ASM <sup>6</sup>	(NA)	(NA)	(NA)	8.8	99.0	7.6	14.5	76.0	139.4	211.9	353.8	13.2	37.9	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	9.0	94.2	7.6	15.0	72.2	141.5	195.1	331.7	7.14.2	40.1	(NA)	(NA)
1977 Census	198	201	59	8.7	79.7	7.5	14.3	61.7	131.0	172.6	301.9	10.4	34.1	79	84
1976 ASM <sup>6</sup>	(NA)	(NA)	(NA)	5.8	48.2	4.8	9.2	35.8	103.4	110.4	213.8	7.5	26.1	(NA)	(NA)
1975 ASM <sup>6</sup>	(NA)	(NA)	(NA)	5.7	48.9	4.8	9.3	36.2	104.6	94.0	197.8	4.7	28.0	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	6.6	48.6	5.6	10.7	37.4	94.0	85.8	179.3	7.6	28.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	7.8	52.1	6.6	12.7	38.8	100.3	89.3	189.1	7.7.8	22.7	(NA)	(NA)
1972 Census	157	166	73	6.9	44.2	5.9	11.0	33.0	95.6	80.1	172.6	7.0	20.2	84	73
1971 ASM <sup>6</sup>	(NA)	(NA)	(NA)	2.6	15.3	2.1	4.0	10.8	28.3	21.9	50.9	1.3	4.8	(NA)	(NA)
1970 ASM <sup>6</sup>	(NA)	(NA)	(NA)	3.1	17.4	2.6	5.1	12.9	28.4	21.2	49.9	.8	5.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	(NA)	3.0	17.1	2.6	5.1	12.8	30.4	28.2	57.5	1.1	7.6	(NA)	(NA)
1968 ASM	(NA)	(NA)	(NA)	3.3	18.0	2.8	5.8	12.9	33.3	32.1	65.0	.9	7.8	(NA)	(NA)
1967 Census	75	79	36	3.0	14.8	2.6	5.2	10.9	30.4	24.7	55.3	1.3	6.2	83	56

<sup>1</sup>In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1967, see 1967 Census of Manufactures, vol. II, table 1 of the Industry chapter.

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during year.

<sup>4</sup>Effective with the 1982 Economic Censuses, uniform instructions for reporting inventories were introduced for all sector reports. Up to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown above and in historical census of manufactures and annual survey of manufactures publications. Inventories and value added data estimated on a basis comparable to the historical data, using the reported information for 1982, are shown below:

Industries	End-of-1981 inventories (million dollars)	End-of-1982 inventories (million dollars)	1982 value added by manufacture (million dollars)
Industry 2511, Wood household furniture	1 115.9	1 162.4	2 715.7
Industry 2512, Upholstered household furniture	451.2	441.4	1 741.9
Industry 2514, Metal household furniture	254.0	277.7	807.0
Industry 2515, Mattresses and bedsprings	259.0	200.5	882.0
Industry 2517, Wood TV and radio cabinets	29.3	32.5	152.5
Industry 2519, Household furniture, n.e.c.	53.2	50.3	153.3

See Inventories in appendixes for explanation of the difference between end-of-1981 inventory figure shown in table and corresponding figure shown in footnote.

Industry was defined or redefined for 1972 Census of Manufactures, so data are available only for years shown.

<sup>5</sup>Data either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data; thus, these estimates may be of limited reliability.

<sup>6</sup>Estimate for new capital expenditures has associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

**Table 1b. Selected Operating Ratios for the Industry: 1982 and Earlier Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
<b>INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE</b>									
1982 Census	11 168	87	1 806	5.43	46	74	21 616	52	13.77
1981 ASM	10 973	87	1 923	5.09	47	75	21 624	51	12.85
1980 ASM	9 920	87	1 890	4.64	46	74	19 610	51	11.99
1979 ASM	9 524	87	1 970	4.31	47	74	19 063	50	11.10
1978 ASM	8 818	87	1 983	3.98	48	75	17 597	50	10.14
1977 Census	8 078	88	1 963	3.66	46	74	15 874	50	9.13
1976 ASM	7 551	88	1 917	3.52	48	76	14 499	52	8.61
1975 ASM	7 011	88	1 854	3.34	47	75	12 755	55	7.85
1974 ASM	6 709	88	1 960	3.07	49	76	13 085	51	7.58
1973 ASM	6 702	94	2 013	2.80	48	76	12 653	53	6.70
1972 Census	6 030	89	2 028	2.67	47	75	11 636	52	6.46
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE</b>									
1982 Census	12 038	85	1 766	6.03	50	74	24 721	49	16.53
1981 ASM	11 530	84	1 819	5.64	51	76	22 751	51	14.80
1980 ASM	10 778	84	1 888	5.12	53	79	19 544	55	12.28
1979 ASM	10 020	86	1 845	4.77	52	78	18 396	54	11.64
1978 ASM	9 657	85	1 861	4.63	51	76	18 784	51	11.84
1977 Census	8 749	85	1 817	4.24	51	78	16 139	54	10.44
1976 ASM	8 311	85	1 828	3.97	51	78	15 242	55	9.77
1975 ASM	8 024	85	1 826	3.81	51	78	14 358	56	9.22
1974 ASM	7 179	85	1 849	3.43	49	77	13 261	54	8.43
1973 ASM	6 870	85	1 883	3.28	49	77	12 364	56	7.74

See footnotes at end of table.

**Table 1b. Selected Operating Ratios for the Industry: 1982 and Earlier Years—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Payroll per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE—Con.</b>									
1972 Census-----	6 579	85	1 918	3.03	48	77	12 000	55	7.35
1971 ASM-----	6 238	86	1 968	2.82	48	77	11 132	56	6.58
1970 ASM-----	5 896	86	1 929	2.72	47	76	10 588	56	6.37
1969 ASM-----	5 529	86	1 936	2.51	46	76	10 049	55	6.00
1968 ASM-----	5 294	87	1 933	2.42	46	76	9 711	55	5.77
1967 Census-----	5 003	86	1 943	2.28	47	77	8 914	56	5.32
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE</b>									
1982 Census-----	13 422	80	1 944	5.75	49	71	29 889	45	19.31
1981 ASM-----	12 030	82	1 910	5.31	51	74	26 476	45	16.93
1980 ASM-----	10 927	83	1 863	4.90	51	74	23 415	47	15.16
1979 ASM-----	10 235	81	1 932	4.54	52	75	22 445	46	14.27
1978 ASM-----	9 891	83	1 908	4.35	53	76	20 381	49	12.87
1977 Census-----	9 102	82	1 881	4.04	52	75	19 201	47	12.35
1976 ASM-----	8 833	81	1 891	3.83	52	77	17 125	52	11.14
1975 ASM-----	8 297	80	1 846	3.73	51	76	15 541	53	10.50
1974 ASM-----	7 274	81	1 868	3.29	53	78	13 661	53	8.99
1973 ASM-----	6 873	83	1 925	3.02	51	76	13 789	50	8.64
1972 Census-----	6 468	83	1 878	2.93	51	76	13 000	50	8.33
1971 ASM-----	6 165	82	1 926	2.69	50	75	12 263	50	7.77
1970 ASM-----	5 806	82	1 888	2.61	50	76	11 290	51	7.26
1969 ASM-----	5 530	84	1 899	2.53	51	77	10 555	52	6.61
1968 ASM-----	5 277	83	1 932	2.35	50	76	10 402	51	6.52
1967 Census-----	5 016	83	1 950	2.18	52	77	9 397	53	5.79
<b>INDUSTRY 2515, MATTRESSES AND BEDSPRINGS</b>									
1982 Census-----	14 071	75	1 874	6.15	54	73	34 740	41	24.79
1981 ASM-----	13 000	75	1 900	5.50	53	70	36 293	36	25.61
1980 ASM-----	12 277	75	1 885	5.23	53	71	32 180	38	22.82
1979 ASM-----	11 569	75	1 940	4.81	55	74	28 146	41	19.25
1978 ASM-----	11 382	78	1 894	4.86	56	76	24 689	46	16.82
1977 Census-----	10 353	76	1 910	4.45	56	76	22 817	45	15.68
1976 ASM-----	9 779	77	1 919	4.23	55	75	21 857	45	14.84
1975 ASM-----	9 132	78	1 882	3.94	55	76	19 812	46	13.50
1974 ASM-----	8 273	78	1 890	3.57	53	74	19 078	43	13.00
1973 ASM-----	7 708	78	1 924	3.33	55	77	16 015	48	10.68
1972 Census-----	7 443	77	1 946	3.18	54	77	15 283	49	10.19
1971 ASM-----	6 821	77	1 952	2.94	54	77	13 858	49	9.16
1970 ASM-----	6 478	77	1 983	2.71	54	78	12 522	52	8.21
1969 ASM-----	6 166	78	2 000	2.57	55	78	11 918	52	7.65
1968 ASM-----	6 069	78	1 988	2.56	55	78	11 785	51	7.61
1967 Census-----	5 497	78	1 959	2.32	55	78	10 753	51	7.02
<b>INDUSTRY 2517, WOOD TV AND RADIO CABINETS</b>									
1982 Census-----	12 657	84	1 831	6.15	50	78	21 729	58	14.08
1981 ASM-----	12 100	87	1 951	5.54	49	78	21 371	57	12.57
1980 ASM-----	10 733	87	1 892	5.20	50	79	18 653	58	11.37
1979 ASM-----	9 690	85	1 845	4.77	49	80	14 726	66	9.44
1978 ASM-----	9 873	87	1 921	4.74	57	86	15 510	64	9.25
1977 Census-----	8 308	86	1 889	4.01	50	80	14 033	59	8.56
1976 ASM-----	7 000	87	1 878	3.36	49	74	14 301	49	8.72
1975 ASM-----	6 692	85	1 844	3.27	48	73	12 912	52	8.27
1974 ASM-----	6 285	84	1 866	3.05	56	84	10 026	63	6.39
1973 ASM-----	6 097	88	1 883	2.87	50	82	10 216	60	6.20
1972 Census-----	5 884	88	1 952	2.70	49	82	9 360	63	5.46
<b>INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.</b>									
1982 Census-----	13 608	81	1 950	6.53	59	86	20 716	66	13.10
1981 ASM-----	13 217	84	1 974	5.92	57	83	21 696	61	13.13
1980 ASM-----	12 000	84	1 895	5.66	56	83	19 725	61	12.47
1979 ASM-----	11 250	86	1 908	5.24	60	88	15 841	71	9.61
1978 ASM-----	10 467	84	1 974	4.81	59	87	15 722	67	9.43
1977 Census-----	9 169	85	1 912	4.31	57	83	15 069	60	9.18
1976 ASM-----	8 310	83	1 917	3.89	52	74	17 828	47	11.24
1975 ASM-----	8 579	84	1 938	3.89	48	72	18 351	47	11.25
1974 ASM-----	7 364	85	1 911	3.50	48	75	14 242	52	8.79
1973 ASM-----	6 679	85	1 924	3.06	47	75	12 659	52	7.90
1972 Census-----	6 406	86	1 864	3.00	46	72	13 855	46	8.69
1971 ASM-----	5 885	81	1 905	2.70	43	73	10 885	54	7.07
1970 ASM-----	5 613	84	1 962	2.53	42	77	9 161	61	5.57
1969 ASM-----	5 700	87	1 962	2.51	49	79	10 133	56	5.96
1968 ASM-----	5 455	85	2 071	2.22	49	77	10 091	54	5.74
1967 Census-----	4 933	87	2 000	2.10	45	71	10 133	49	5.85

Note: For qualifications of data, see footnotes on table 1a.

**Table 2. Industry Statistics for Selected States: 1982 and 1977**

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982											1977		
	All establishments <sup>2</sup>		All employees		Production workers			Value added by manufacture <sup>4</sup> (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees <sup>3</sup> (1,000)	Value added by manufacture (million dollars)	
	E1	Total (no.)	With 20 employees or more (no.)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
<b>INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE</b>														
United States -----	E1	2 607	833	125.6	1 402.7	109.2	197.2	1 070.6	2 715.0	2 317.8	5 056.6	119.1	140.8	2 235.0
Alabama -----	E3	65	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	40.7
Arizona -----	E3	39	9	.8	7.1	.7	1.2	5.5	15.4	14.4	29.5	(D)	.3	3.5
Arkansas -----	E2	25	15	2.6	27.8	2.3	3.9	20.7	55.2	56.4	112.0	1.5	5.0	75.5
California -----	E3	480	147	12.5	153.9	10.6	20.1	110.4	315.6	267.1	581.2	8.2	12.6	217.4
Colorado -----	E9	44	6	.6	5.5	.6	1.0	4.4	9.9	8.9	19.0	.3	.2	2.9
Connecticut -----	E2	28	5	.7	7.4	.5	.9	4.7	13.0	8.2	20.8	.4	.6	8.2
Florida -----	E4	179	26	2.4	23.6	2.0	3.7	18.2	46.9	45.0	91.6	1.8	2.2	34.3
Georgia -----	E1	75	21	2.6	25.3	2.3	4.1	19.0	52.4	52.6	105.2	(D)	2.6	43.6
Illinois -----	E4	60	22	1.7	18.8	1.5	2.7	13.8	38.9	43.8	82.2	1.2	1.9	31.1
Indiana -----	E1	62	31	3.8	47.1	3.3	5.8	35.2	98.0	69.1	165.5	1.7	FF	(D)
Kentucky -----	E6	28	8	.7	7.8	.6	1.2	6.1	15.8	14.6	29.9	.5	1.1	13.4
Maine -----	E4	22	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	13.2
Maryland -----	E5	23	7	.6	8.7	.5	1.0	6.7	16.0	9.3	25.5	.5	.5	8.4
Massachusetts -----	E1	92	26	2.5	28.9	2.2	3.6	21.5	55.4	45.9	101.0	1.2	2.7	45.4
Michigan -----	E1	55	23	2.6	37.3	2.2	4.3	27.5	64.5	44.3	109.3	8.4	3.0	49.9
Minnesota -----	E8	29	2	.3	2.7	.3	.5	2.2	6.1	5.5	11.7	(D)	.5	5.9
Mississippi -----	E3	41	15	2.0	24.4	1.6	3.0	15.9	32.6	38.4	80.4	(D)	4.0	58.9
Missouri -----	-	28	12	1.5	19.2	1.0	1.9	12.1	51.8	44.1	97.9	3.4	1.2	18.2
Nebraska -----	E7	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
New Hampshire -----	E2	28	9	.9	10.5	.7	1.5	7.7	28.4	16.0	43.6	1.1	1.1	19.3
New Jersey -----	E4	64	15	.9	10.4	.8	1.5	8.4	24.5	27.1	51.8	.6	.8	15.9
New York -----	E2	208	50	4.5	58.4	3.8	7.3	44.9	111.8	80.1	191.7	(D)	5.7	85.5
North Carolina -----	-	219	128	38.2	418.7	34.0	60.0	331.2	773.6	655.0	1 445.8	40.4	41.2	681.3
Ohio -----	E3	46	14	1.9	24.0	1.5	2.8	17.6	47.0	34.4	81.5	1.5	FF	(D)
Oklahoma -----	E8	15	6	.7	6.8	.6	1.0	4.9	10.5	14.3	25.0	.3	.7	7.9
Oregon -----	E2	39	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	16.0
Pennsylvania -----	E1	96	32	3.3	41.1	2.8	5.1	32.8	77.4	70.6	146.0	(D)	3.6	58.7
South Carolina -----	-	26	11	2.1	23.7	1.8	3.7	18.7	46.6	38.0	82.3	(D)	2.1	31.1
Tennessee -----	E1	94	42	6.7	64.9	5.9	10.6	48.9	125.7	109.1	234.7	4.4	6.9	95.8
Texas -----	E2	79	20	2.0	23.0	1.8	3.4	17.1	41.1	40.5	80.6	1.7	3.8	50.3
Vermont -----	E1	23	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	29.9
Virginia -----	-	65	37	17.1	174.4	15.2	26.3	136.5	334.9	286.0	625.7	12.5	181	267.0
Washington -----	E7	54	4	.5	5.1	.4	.8	4.1	12.2	8.1	20.0	.2	BB	(D)
Wisconsin -----	E1	55	19	2.2	26.8	1.9	3.6	21.2	54.0	49.7	103.4	1.7	2.8	50.1
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE</b>														
United States -----	E1	1 227	602	70.6	849.9	59.8	105.6	637.2	1 745.3	1 761.5	3 505.3	57.2	89.1	1 437.3
Alabama -----	E3	26	16	1.6	13.8	1.3	2.3	10.3	31.4	32.4	63.8	1.0	1.2	20.1
Arizona -----	E4	11	6	.2	3.0	.2	.4	2.3	4.9	5.9	10.8	.2	.3	4.3
Arkansas -----	-	20	11	1.2	13.8	1.1	2.0	11.2	25.5	29.7	55.7	(D)	2.1	32.7
California -----	E3	215	89	6.7	92.9	5.5	10.3	69.1	183.7	185.9	370.5	7.8	10.2	189.8
Colorado -----	E1	9	4	.2	3.0	.2	.3	2.2	4.8	4.4	9.2	(Z)	AA	(D)
Connecticut -----	E5	12	5	.2	2.6	.2	.3	2.0	4.4	3.6	8.0	(D)	.4	6.0
Florida -----	E3	41	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	11.7
Georgia -----	E2	17	11	1.2	9.3	1.0	1.7	6.9	18.2	22.3	40.4	(D)	1.7	22.9
Illinois -----	-	25	9	.9	12.9	.7	1.4	9.3	22.8	20.0	42.2	1.3	2.7	47.2
Indiana -----	E1	23	15	1.7	23.8	1.4	2.7	16.9	47.3	46.8	94.4	1.6	2.2	33.6
Iowa -----	E2	7	6	1.0	19.0	.7	1.4	10.4	23.7	23.1	46.5	(D)	1.2	27.7
Kentucky -----	E2	9	2	.2	1.7	.1	.2	1.2	3.1	2.8	6.1	(D)	.4	5.3
Louisiana -----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Maryland -----	E3	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.1
Massachusetts -----	E2	29	11	1.0	14.0	.8	1.6	8.9	19.7	20.5	40.3	.2	1.7	26.3
Michigan -----	-	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	15.2
Mississippi -----	-	74	52	8.4	97.3	7.3	13.5	74.7	254.4	286.2	537.2	7.2	8.4	139.3
Missouri -----	-	18	7	1.1	16.3	.9	1.5	12.6	36.1	30.0	66.0	1.0	1.5	29.5
Nebraska -----	E7	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	6.4
New York -----	E4	68	13	1.2	16.4	1.0	1.7	12.4	28.0	26.7	55.1	(D)	2.1	33.8
North Carolina -----	E1	257	159	24.7	281.0	21.5	35.6	217.9	578.8	587.4	1 163.5	21.7	26.6	418.9
Ohio -----	-	18	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	20.9
Oklahoma -----	E1	16	2	.3	3.0	.2	.3	2.0	6.2	6.4	12.5	.1	.3	5.4
Oregon -----	E1	15	2	.4	6.7	.4	.7	5.1	11.1	12.8	23.9	.4	.7	11.1
Pennsylvania -----	-	40	16	1.8	24.3	1.4	2.6	16.4	46.7	45.1	91.0	1.0	2.3	36.7
South Carolina -----	-	9	6	1.1	13.4	1.0	1.6	11.3	29.1	26.1	55.0	(D)	.9	17.0
Tennessee -----	E2	85	52	6.3	68.0	5.5	10.1	52.3	157.3	150.0	307.9	3.7	8.0	118.6
Texas -----	E2	51	33	2.0	22.9	1.7	3.0	16.3	45.7	42.4	88.3	1.2	3.4	46.6
Utah -----	E1	14	8	.7	8.3	.6	.9	6.7	16.9	12.2	28.7	(D)	.3	5.1
Virginia -----	E2	27	15	1.5	19.2	1.1	2.1	11.1	28.8	39.7	71.8	1.1	2.4	35.0
Washington -----	E1	15	4	.4	4.7	.3	.5	3.7	8.8	7.6	16.2	.1	.8	12.7
Wisconsin -----	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	26.9

See footnotes at end of table.

**Table 2. Industry Statistics for Selected States: 1982 and 1977—Con.**

(Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Industry and geographic area	1982											1977		
	All establishments <sup>2</sup>		All employees		Production workers			Value added by manufacture <sup>4</sup> (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees <sup>3</sup> (1,000)	Value added by manufacture (million dollars)	
	E1	Total (no.)	With 20 employees or more (no.)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE</b>														
United States -----	E1	454	205	27.0	362.4	21.5	41.8	240.3	807.0	774.1	1 590.7	25.4	33.2	637.4
Alabama -----	E2	8	6	1.1	13.2	.9	1.8	9.6	29.2	25.1	54.6	.4	1.1	20.5
Arkansas -----	E1	5	3	.3	3.9	.2	.5	2.8	9.5	6.8	16.4	.2	CC	(D)
California -----	E1	81	45	5.2	69.9	4.3	8.4	49.4	193.5	142.8	338.1	6.7	5.8	122.1
Connecticut -----	E9	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Florida -----	E4	56	22	1.6	19.8	1.4	2.5	14.4	41.3	37.9	83.2	1.1	.9	17.2
Georgia -----	E3	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	7.8
Illinois -----	-	28	14	2.3	34.2	1.6	3.4	19.1	70.2	85.6	158.1	2.1	4.0	94.9
Indiana -----	E9	7	6	1.7	25.3	1.4	2.8	18.1	42.9	42.1	84.8	1.1	1.5	32.9
Kentucky -----	E1	5	2	.2	3.2	.2	.3	1.8	7.7	5.9	13.2	.1	1.1	16.2
Louisiana -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Massachusetts -----	E1	8	3	.2	2.7	.2	.3	1.3	5.5	7.1	12.5	.1	.5	7.7
Michigan -----	E5	13	6	.6	10.5	.5	.9	7.3	23.0	17.8	40.4	(D)	.3	6.8
Minnesota -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Mississippi -----	E2	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.7
Missouri -----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
New Jersey -----	E2	18	5	.8	8.7	.6	1.1	5.3	23.5	20.0	40.3	2.6	1.0	16.5
New York -----	E3	62	18	1.5	25.8	1.2	2.4	15.5	45.6	36.7	82.6	.7	2.1	42.9
North Carolina -----	E1	20	14	2.5	27.6	2.1	3.9	20.2	54.7	64.7	119.0	3.1	2.2	36.6
Ohio -----	-	14	6	1.2	18.5	1.0	1.8	13.1	40.0	53.2	94.5	1.2	2.0	33.4
Pennsylvania -----	E2	28	16	1.4	18.0	1.1	2.0	11.2	39.1	49.7	88.3	.7	2.0	31.0
Tennessee -----	-	6	6	1.2	20.3	.9	1.7	11.6	44.5	30.8	78.4	1.9	1.9	40.8
Texas -----	E1	21	11	1.6	16.7	1.3	2.6	11.7	47.5	42.3	88.5	1.1	1.3	21.3
Virginia -----	-	11	5	.8	8.9	.7	1.5	6.9	22.3	25.4	49.9	.3	1.3	26.1
<b>INDUSTRY 2515, MATTRESSES AND BEDSPRINGS</b>														
United States -----	E2	902	336	25.4	357.4	19.0	35.6	218.9	882.4	1 047.4	1 935.4	25.0	27.0	616.6
Alabama -----	E5	20	6	.3	3.0	.2	.4	1.5	7.5	12.7	20.3	.4	.3	5.2
Arizona -----	E3	16	3	.2	2.5	.1	.2	1.2	5.9	7.8	13.8	(D)	.2	5.1
Arkansas -----	E1	14	3	.4	4.4	.3	.6	3.1	4.2	11.2	15.8	.4	(NA)	(NA)
California -----	E1	118	46	4.2	64.4	3.1	5.9	41.9	143.6	182.9	326.0	3.7	3.4	88.9
Colorado -----	-	11	5	.3	5.1	.2	.3	2.6	13.5	11.8	25.5	.6	.4	9.5
Connecticut -----	E1	12	6	.5	9.6	.3	.6	4.4	22.8	19.5	42.2	.1	CC	(D)
Florida -----	E2	60	21	1.4	17.0	1.0	1.9	10.1	63.9	66.5	131.0	1.1	1.4	30.7
Georgia -----	E1	31	17	1.4	16.8	1.1	2.0	11.2	42.9	46.2	89.6	(D)	1.4	26.4
Illinois -----	E4	36	13	1.0	14.9	.7	1.4	9.0	33.6	41.4	75.2	.8	1.1	34.4
Indiana -----	-	16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.3
Kansas -----	-	11	3	.4	5.8	.3	.6	3.1	8.3	11.2	19.7	.4	.4	7.8
Maryland -----	E7	10	8	.7	9.8	.5	.9	5.3	20.2	30.0	49.7	1.2	.7	8.4
Massachusetts -----	E3	25	8	.5	7.5	.4	.7	4.3	23.6	25.4	48.8	2.6	.5	12.3
Michigan -----	-	27	8	.4	5.8	.3	.6	3.3	15.0	16.7	32.0	.3	.5	15.2
Minnesota -----	E4	11	4	.3	4.0	.2	.3	2.2	10.3	12.1	22.5	.2	.5	12.0
Mississippi -----	E1	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Missouri -----	E4	22	9	.6	7.5	.4	.8	5.5	20.6	25.3	45.8	(D)	.7	16.1
New Jersey -----	-	27	16	1.5	25.2	1.1	2.2	15.6	63.6	65.9	129.7	.9	1.7	36.4
New York -----	E4	53	15	.9	12.6	.7	1.3	7.3	28.9	29.9	58.7	.5	1.0	22.0
North Carolina -----	E3	34	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	16.5
Ohio -----	E1	33	15	1.2	18.6	1.0	1.9	13.4	43.7	54.8	101.0	1.2	1.8	42.1
Oklahoma -----	E3	16	4	.2	3.5	.2	.3	2.2	9.9	9.5	19.3	.2	.2	6.4
Oregon -----	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pennsylvania -----	E3	31	18	.8	11.2	.6	1.0	5.8	28.9	33.6	62.8	(D)	.9	24.1
South Carolina -----	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee -----	E1	25	9	.8	11.8	.6	1.0	5.8	27.7	32.5	60.2	.5	1.1	23.4
Texas -----	E3	78	27	2.6	31.1	2.1	3.8	20.8	81.9	100.8	183.9	3.1	2.1	53.2
Utah -----	E2	8	4	.3	2.9	.2	.4	1.9	5.8	6.1	11.9	.1	.2	3.5
Virginia -----	E2	15	5	.5	5.6	.4	.6	2.9	13.3	14.3	27.5	(D)	BB	(D)
Washington -----	E4	23	8	.4	5.5	.2	.4	2.9	11.4	14.2	25.7	(D)	.5	14.5
Wisconsin -----	E1	22	4	.5	7.6	.4	.7	5.1	19.7	26.8	46.9	.2	.2	8.2
<b>INDUSTRY 2517, WOOD TV AND RADIO CABINETS</b>														
United States -----	E1	83	37	7.0	88.6	5.9	10.8	66.4	152.1	151.8	306.6	7.3	10.7	150.4
Arkansas -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California -----	E2	26	12	.9	10.5	.8	1.5	7.8	20.1	19.6	39.9	.4	1.7	21.5
Indiana -----	-	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	65.0
Missouri -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
New York -----	E9	14	5	.5	4.5	.4	.8	2.9	8.2	9.9	18.1	(D)	.2	2.5
North Carolina -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)
Pennsylvania -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Tennessee -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

**Table 2. Industry Statistics for Selected States: 1982 and 1977—Con.**

[Excludes data for auxiliaries. Includes data for States with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1982											1977	
	All establishments <sup>2</sup>		All employees		Production workers			Value added by manufacture <sup>4</sup> (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees <sup>3</sup> (1,000)	Value added by manufacture (million dollars)
	E <sup>1</sup>	Total (no.)	With 20 employees or more (no.)	Number <sup>3</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
<b>INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.</b>													
United States -----	E2	202	63	7.4	100.7	6.0	11.7	76.4	153.3	225.6	381.1	11.9	8.7
Arkansas -----	E9	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
California -----	E4	31	9	.7	8.3	.6	1.1	5.8	17.1	21.6	38.5	1.7	1.0
Florida -----	E8	43	12	.7	7.7	.6	1.1	5.9	17.9	18.2	36.1	1.3	BB (D)
Illinois -----	E1	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
Indiana -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE (D)
Iowa -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA (D)
Kentucky -----	E5	5	3	.3	3.5	.2	.5	2.9	7.6	3.7	11.2	(D)	AA (D)
New York -----	E4	18	5	.3	3.4	.2	.4	2.4	5.6	3.9	9.5	(D)	.4
North Carolina -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
Ohio -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7
Pennsylvania -----	E1	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB (D)
Tennessee -----	E1	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA (D)
Texas -----	E9	11	3	.2	2.2	.2	.3	1.8	3.5	4.9	8.5	.4	AA (D)
Virginia -----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC (D)

Note: For qualifications of data, see footnotes on table 1a.

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during year.

<sup>3</sup>Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

<sup>4</sup>Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, data for inventories and value added by manufacture are not comparable to prior-year data.

**Table 3a. Summary Statistics for the Industry: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Wood household furniture (SIC 2511)	Upholstered household furniture (SIC 2512)	Metal household furniture (SIC 2514)	Mattresses and bedsprings (SIC 2515)	Wood TV and radio cabinets (SIC 2517)	Household furniture, n.e.c. (SIC 2519)
Companies <sup>1</sup> ----- number -----	2 430	1 129	413	786	82	196
All establishments <sup>2</sup> ----- do -----	2 607	1 227	454	902	83	202
With 1 to 19 employees ----- do -----	1 774	625	249	566	46	139
With 20 to 99 employees ----- do -----	555	420	123	291	25	46
With 100 employees or more ----- do -----	278	182	82	45	12	17
All employees:						
Average for year ----- 1,000 ----- mil. dol. -----	125.6	70.6	27.0	25.4	7.0	7.4
Annual payroll <sup>3</sup> ----- mil. dol. -----	1 402.7	849.9	362.4	357.4	88.6	100.7
Production workers:						
Average for year ----- 1,000 -----	109.2	59.8	21.5	19.0	5.9	6.0
March ----- do -----	111.2	59.6	22.6	18.9	6.2	6.1
May ----- do -----	108.6	59.6	22.2	18.8	5.9	6.1
August ----- do -----	109.0	60.0	19.6	19.3	5.8	6.0
November ----- do -----	107.7	60.1	21.7	18.8	5.5	5.9
Hours ----- millions -----	197.2	105.6	41.8	35.6	10.8	11.7
January to March ----- do -----	48.7	25.8	11.0	8.3	2.7	2.7
April to June ----- do -----	50.0	26.5	10.8	8.8	2.7	3.0
July to September ----- do -----	47.8	25.8	9.3	9.3	2.7	2.8
October to December ----- do -----	50.4	27.3	10.6	9.1	2.7	3.2
Wages ----- mil. dol. -----	1 070.6	637.2	240.3	218.9	66.4	76.4
Value added by manufacture <sup>4</sup> ----- do -----	2 715.0	1 745.3	807.0	882.4	152.1	153.3
Cost of materials, etc. <sup>5</sup> ----- do -----	2 317.8	1 761.5	774.1	1 047.4	151.8	225.6
Materials, parts, containers, etc., consumed ----- do -----	2 082.0	1 692.9	723.7	1 010.1	143.3	211.9
Resales ----- do -----	118.1	25.9	19.6	20.2	(D)	(D)
Fuels consumed <sup>6</sup> ----- do -----	28.3	13.6	9.4	5.7	2.1	2.0
Purchased electric energy <sup>7</sup> ----- do -----	73.4	23.3	12.5	9.7	3.4	6.3
Contract work ----- do -----	15.5	5.9	8.7	1.7	(D)	(D)
Value of shipments, including resales ----- do -----	5 056.6	3 505.3	1 590.7	t 935.4	306.6	381.1
Value of resales ----- do -----	140.7	30.3	26.7	28.2	(D)	(D)

See footnotes at end of table.

**Table 3a. Summary Statistics for the Industry: 1982—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Wood household furniture (SIC 2511)	Upholstered household furniture (SIC 2512)	Metal household furniture (SIC 2514)	Mattresses and bedsprings (SIC 2515)	Wood TV and radio cabinets (SIC 2517)	Household furniture, n.e.c. (SIC 2519)
Manufacturers' inventories (see tables 3b and 3c)						
Capital expenditures for plant and equipment <sup>6</sup> ----- mil. dol.	132.0	90.1	27.2	33.5	11.1	12.0
New capital expenditures ----- do	119.1	57.2	25.4	25.0	7.3	11.9
New buildings and other structures ----- do	33.3	18.7	5.3	7.9	2.4	1.5
New machinery and equipment ----- do	85.9	38.5	20.1	17.0	4.8	10.4
Used capital expenditures ----- do	12.9	33.0	1.8	8.5	3.9	.1
Primary product specialization ratio <sup>8</sup> ----- percent	95	91	89	95	91	80
Coverage ratio <sup>10</sup> ----- do	96	95	92	88	91	93

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during year.

<sup>3</sup>Data on supplemental labor costs are not included in annual payroll, but are shown in table 3d.

<sup>4</sup>Value added by manufacture is computed using inventory data reported on a cost or market basis prior to any adjustment to LIFO cost. See table 3b, footnote 1 for further explanation.

<sup>5</sup>Data on quantity of electric energy used for heat and power are included in table 3d.

<sup>6</sup>Data on capital expenditures for new machinery and equipment by type, depreciable assets, retirements, rental payments, and depreciation are included in table 3d.

<sup>7</sup>Represents ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for establishments classified in industry.

<sup>8</sup>Represents ratio of primary products shipped by establishments classified in industry to total shipments of such products by all manufacturing establishments wherever classified.

**Table 3b. Value of Inventories for the Industry: End of 1981 and 1982**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Wood household furniture (SIC 2511)		Upholstered household furniture (SIC 2512)		Metal household furniture (SIC 2514)		Mattresses and bedsprings (SIC 2515)		Wood TV and radio cabinets (SIC 2517)		Household furniture, n.e.c. (SIC 2519)	
	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982	End of 1981	End of 1982
<b>Total Inventories<sup>1</sup></b> -----	<b>1 234.2</b>	<b>1 162.4</b>	<b>455.8</b>	<b>441.4</b>	<b>302.8</b>	<b>277.7</b>	<b>210.3</b>	<b>200.5</b>	<b>36.7</b>	<b>32.5</b>	<b>54.1</b>	<b>50.3</b>
Detail by method of valuation:												
Subject to LIFO costing <sup>2</sup> -----	389.7	355.8	107.1	97.8	100.9	87.0	26.2	24.3	(D)	(D)	(D)	(D)
LIFO reserve -----	79.3	81.5	21.8	22.2	24.2	23.4	6.5	6.3	(D)	(D)	(D)	(D)
LIFO value -----	310.4	274.3	85.3	75.7	76.6	63.7	19.7	18.0	(D)	(D)	(D)	(D)
Not subject to LIFO costing -----	510.1	480.5	219.2	212.2	143.7	136.1	92.9	97.8	24.0	21.8	19.2	19.4
Valuation method not reported <sup>3</sup> -----	275.4	271.6	127.9	129.7	58.1	54.4	89.3	76.6	(D)	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value <sup>4</sup> -----	59.0	54.4	1.6	1.8	.1	.1	1.9	1.8	.1	.1	7.9	4.1
Detail by stage of fabrication:												
Finished goods -----	559.3	546.5	89.0	88.9	85.3	84.6	69.7	64.8	8.9	7.1	10.4	10.8
Work in process -----	277.2	266.1	90.8	92.4	68.9	60.0	18.8	18.1	11.3	10.3	13.2	10.6
Materials and supplies -----	397.7	349.8	276.0	260.1	148.6	133.1	121.7	117.6	16.5	15.0	30.5	28.9

<sup>1</sup>Effective with the 1982 Economic Censuses, uniform instructions for reporting inventories were introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (LIFO, FIFO, market, to name a few). In 1982, all respondents were requested to report inventories at cost or market. LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve. For further explanation, see inventories in appendixes.

<sup>2</sup>Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

<sup>3</sup>Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

<sup>4</sup>Includes data reported by respondents who indicated their inventories were subject to LIFO cost, but did not provide associated LIFO reserve and value figures.

**Table 3c. Inventories by Specific Method of Valuation for the Industry: End of 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Wood household furniture (SIC 2511)		Upholstered household furniture (SIC 2512)		Metal household furniture (SIC 2514)		Mattresses and bedsprings (SIC 2515)		Wood TV and radio cabinets (SIC 2517)		Household furniture, n.e.c. (SIC 2519)	
	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)	Percent of total	Absolute standard error (percent)
<b>Total Inventories</b> -----	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>	<b>(X)</b>	<b>100.0</b>	<b>(X)</b>
Last-In, First-Out (LIFO) methods -----	30.6	(X)	22.2	(X)	31.3	(X)	12.1	(X)	(D)	(X)	(D)	(X)
Non-LIFO methods -----	41.3	(X)	48.1	(X)	49.0	(X)	48.8	(X)	67.2	(X)	38.5	(X)
Cost basis:												
First-In, First-Out (FIFO) -----	21.7	1.2	29.6	1.9	34.1	1.8	20.1	5.2	26.4	1.2	17.9	4.3
Average cost -----	1.8	.2	1.9	.6	1.7	.7	1.6	.4	32.4	1.6	6.7	1.4
Specific or actual cost -----	8.1	1.0	7.3	1.0	2.9	.4	5.3	2.2	(D)	.1	(D)	1.4
Standard cost -----	6.7	.7	5.7	1.0	6.7	.8	10.4	2.6	(D)	1.4	6.6	2.7
Other -----	.6	.3	1.9	1.0	(Z)	(Z)	11.0	8.3	(Z)	(Z)	(D)	2.4
Market basis:												
Market lower than cost -----	.5	.1	1.0	.5	3.7	.5	.3	.3	(Z)	(Z)	(Z)	(Z)
Market always used -----	1.9	.8	.7	.4	(Z)	(Z)	.2	.1	(Z)	(Z)	1.8	1.4
Valuation method not reported -----	23.4	(X)	29.4	(X)	19.6	(X)	38.2	(X)	(D)	(X)	(D)	(X)
Amount subject to LIFO reported without associated reserve and value -----	4.7	(X)	.4	(X)	(Z)	(X)	.9	(X)	.4	(X)	8.2	(X)

Note: The percentages shown for the LIFO and non-LIFO totals and the categories "valuation method not reported" and "amount subject to LIFO reported..." are based on the census universe estimates included in table 3b. The percentages shown for the specific non-LIFO methods of valuation (e.g., FIFO, etc.) are based on a representative sample of establishments included in the annual survey of manufactures (ASM) panel for 1982 (see appendixes for description of ASM). The absolute standard error of each of the ASM estimates is shown above.

**Table 3d. Supplemental Industry Statistics Based on Sample Estimates: 1982**

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Item	Wood household furniture (SIC 2511)		Upholstered household furniture (SIC 2512)		Metal household furniture (SIC 2514)		Mattresses and bedsprings (SIC 2515)		Wood TV and radio cabinets (SIC 2517)		Household furniture, n.e.c. (SIC 2519)	
	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)
Supplemental labor costs:												
Total	253.9	2	125.1	9	67.7	3	71.8	4	21.1	1	28.4	7
Legal costs	138.5	1	68.2	9	34.8	3	36.8	4	8.7	2	9.6	4
Voluntary costs	115.4	3	56.9	9	32.9	4	35.1	5	12.4	1	18.8	10
Purchased services:												
Cost of purchased services for the repair of—												
Buildings and other structures	11.1	7	4.3	10	1.0	1	1.9	23	.8	2	.3	34
Response coverage ratio (percent) <sup>2</sup>	71.3	(X)	73.1	(X)	60.0	(X)	65.5	(X)	76.1	(X)	37.5	(X)
Machinery	24.6	5	6.0	62	5.1	2	3.8	17	1.5	5	.9	23
Response coverage ratio (percent) <sup>2</sup>	75.9	(X)	74.5	(X)	61.4	(X)	68.5	(X)	76.1	(X)	38.4	(X)
Cost of purchased communication services	8.9	7	5.7	10	4.0	13	3.9	64	.6	5	1.0	35
Response coverage ratio (percent) <sup>2</sup>	77.4	(X)	74.6	(X)	65.1	(X)	63.7	(X)	71.9	(X)	56.8	(X)
Electric energy used for heat and power:												
Purchased:												
Quantity (million kWh)	1 354.2	1	452.4	2	212.0	2	148.7	4	68.6	2	135.4	3
Cost	73.4	(X)	23.3	(X)	12.5	(X)	9.7	(X)	3.4	(X)	6.3	(X)
Generated less sold (million kWh)	14.1	21	(S)	(S)	(S)	1	(Z)	1	(Z)	1	(S)	(S)
Gross book value of depreciable assets:												
Total:												
Beginning of year	1 649.1	2	625.2	4	320.2	6	271.9	9	94.5	3	120.2	9
New capital expenditures	128.8	24	48.9	8	21.6	10	23.1	21	7.2	5	13.0	21
Used capital expenditures	8.1	15	31.6	72	1.6	17	16.6	49	3.4	1	.1	63
Retirements	97.5	10	47.7	21	14.2	14	10.3	18	30.2	7	5.9	15
End of year	1 688.6	3	658.0	5	329.2	5	301.2	9	74.9	2	127.4	8
Buildings and other structures:												
Beginning of year	660.5	3	326.8	12	106.1	9	111.6	15	37.3	3	35.4	24
New capital expenditures	49.4	44	15.8	11	2.9	7	6.1	36	2.6	8	2.0	30
Used capital expenditures	1.8	9	21.1	74	.1	18	10.9	67	2.9	1	-.1	1
Retirements	35.7	11	14.8	25	3.7	28	2.0	36	10.5	6	.4	28
End of year	676.0	5	349.0	11	105.3	9	126.6	17	32.2	3	37.1	23
Machinery and equipment:												
Beginning of year	988.7	2	298.3	7	214.2	5	160.3	7	57.2	3	84.8	6
New capital expenditures	79.4	13	33.1	9	18.8	11	17.0	18	4.6	4	11.0	21
Automobiles, trucks, etc., for highway use	4.2	15	7.3	24	1.3	21	2.4	40	.2	31	.3	42
Computers and peripheral data processing equipment	2.7	20	2.8	27	.7	55	.6	43	.2	1	.1	52
All other	60.2	15	9.8	9	14.5	10	7.0	25	2.1	2	4.7	18
New machinery and equipment, n.s.k. <sup>3</sup>	12.3	27	13.2	13	2.3	43	7.0	27	2.1	8	5.9	36
Used capital expenditures	6.3	18	10.5	67	1.5	18	5.7	47	.5	1	.1	63
Retirements	61.8	10	32.9	22	10.5	15	8.3	20	19.6	9	5.5	15
End of year	1 012.6	2	309.0	6	223.9	5	174.6	7	42.7	3	90.4	6
Rental payments:												
Total	30.9	9	22.8	14	20.8	9	21.2	15	2.6	11	12.9	61
Buildings and other structures	20.2	12	13.1	16	10.4	14	15.4	18	1.9	15	10.6	73
Machinery and equipment	10.7	9	9.7	19	10.4	12	5.8	22	.7	5	2.3	71
Depreciation charges during 1982:												
Total	104.1	3	45.3	4	27.3	7	22.5	9	6.3	3	9.6	9
Buildings and other structures	25.7	5	13.9	14	4.6	9	5.4	21	1.8	4	1.5	24
Machinery and equipment	78.4	3	31.4	9	22.8	7	17.1	7	4.4	3	8.1	13

Note: Data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used expenditures are also shown in table 3a. Data in table 3a are census universe totals and may differ from annual survey of manufactures (ASM) sample estimates shown in this table. Data in this table represent best estimates of year-to-year change as measured by the continuing ASM sample. However, they are subject to sampling error and, hence, as estimates of level, are not as reliable as universe figures shown in table 3a.

<sup>1</sup>For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

<sup>2</sup>Measure of extent to which respondents reported each item. Derived for each item by calculating the ratio of weighted employment for those sample establishments that reported the specific inquiry to weighted total employment for all sample establishments classified in industry. (See appendixes for explanation of sample weight.)

<sup>3</sup>Represents total machinery and equipment expenditures for establishments that did not break down their expenditures by specific type.

**Table 4. Industry Statistics by Employment Size of Establishment: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	All establish- ments (no.) E <sup>1</sup>	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	End-of- year invento- ries (million dollars)	
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
<b>INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE</b>												
Total	E1	2 607	125.6	1 402.7	109.2	197.2	1 070.6	2 715.0	2 317.8	5 056.6	119.1	1 162.4
Establishments with an average of—												
1 to 4 employees	E9	998	1.8	19.8	1.8	3.2	19.3	44.6	39.2	84.8	1.3	19.7
5 to 9 employees	E7	425	2.8	28.5	2.4	4.7	22.3	57.9	51.6	109.7	1.8	24.2
10 to 19 employees	E4	351	4.9	49.1	4.1	7.6	37.5	99.0	96.6	195.3	3.5	37.8
20 to 49 employees	E3	377	11.7	122.7	10.1	18.4	91.7	250.1	247.5	499.8	16.2	108.5
50 to 99 employees	E3	178	12.6	137.0	10.8	19.7	101.5	284.6	238.4	524.4	6.9	109.6
100 to 249 employees	E1	155	24.3	288.5	20.8	38.5	213.8	579.4	475.9	1 049.4	34.0	233.9
250 to 499 employees	-	76	27.3	299.9	24.2	43.9	238.0	588.4	503.4	1 098.3	18.3	251.4
500 to 999 employees	-	38	24.8	278.8	22.0	39.2	220.5	553.2	445.9	1 005.7	22.5	239.0
1,000 to 2,499 employees	-	8	15.4	178.3	12.9	21.8	126.0	257.8	219.2	489.1	14.8	138.3
2,500 employees or more	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	1 133	4.0	37.2	3.7	6.8	32.2	79.7	69.7	150.7	2.4	35.9
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE</b>												
Total	E1	1 227	70.6	849.9	59.8	105.6	637.2	1 745.3	1 761.5	3 505.3	57.2	441.4
Establishments with an average of—												
1 to 4 employees	E9	261	.5	5.3	.5	.8	4.8	11.9	12.4	24.2	.3	3.3
5 to 9 employees	E8	161	1.1	11.2	.9	1.7	8.4	22.7	24.2	46.9	1.1	6.1
10 to 19 employees	E5	203	2.8	32.3	2.4	4.3	23.6	57.8	60.1	118.3	1.6	16.6
20 to 49 employees	E2	246	8.4	97.3	7.0	12.2	72.5	175.7	178.6	355.3	3.3	45.0
50 to 99 employees	E2	174	12.4	140.3	10.4	18.3	102.8	292.3	299.1	592.2	9.7	75.6
100 to 249 employees	E1	123	19.5	242.4	16.0	28.8	179.9	510.0	525.7	1 034.9	15.5	124.6
250 to 499 employees	-	42	13.6	164.7	11.8	20.7	127.1	327.2	367.4	697.1	7.2	90.4
500 to 999 employees	-	15	12.4	156.4	10.8	18.7	118.2	347.7	294.1	636.5	18.3	79.7
1,000 to 2,499 employees	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	411	2.5	23.1	2.1	3.9	17.8	46.0	49.4	95.6	1.2	12.0
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE</b>												
Total	E1	454	27.0	362.4	21.5	41.8	240.3	807.0	774.1	1 590.7	25.4	277.7
Establishments with an average of—												
1 to 4 employees	E9	114	.2	2.5	.2	.3	2.0	5.7	6.0	11.7	.1	2.1
5 to 9 employees	E8	58	.4	5.0	.3	.6	3.3	10.7	10.7	21.4	.3	4.0
10 to 19 employees	E5	77	1.0	13.1	.8	1.6	8.8	25.5	28.4	54.0	.7	8.7
20 to 49 employees	E3	75	2.3	31.3	1.9	3.5	20.9	63.0	67.2	134.6	3.2	19.9
50 to 99 employees	E2	48	3.4	44.9	2.7	5.2	27.9	108.3	105.8	213.7	2.5	36.6
100 to 249 employees	E1	59	9.6	119.4	7.8	14.8	81.5	276.0	275.2	552.6	9.3	99.5
250 to 499 employees	-	17	5.8	77.6	4.6	8.8	53.1	160.6	158.9	321.3	5.4	69.9
500 to 999 employees	-	5	4.3	68.6	3.2	7.0	42.8	157.2	121.9	281.3	3.9	36.9
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	163	.9	9.7	.7	1.4	6.6	20.5	21.7	42.4	.6	7.7
<b>INDUSTRY 2515, MATTRESSES AND BEDSPRINGS</b>												
Total	E2	902	25.4	357.4	19.0	35.6	218.9	882.4	1 047.4	1 935.4	25.0	200.5
Establishments with an average of—												
1 to 4 employees	E8	250	.5	5.3	.4	.7	3.9	16.5	18.0	34.6	.4	3.0
5 to 9 employees	E5	142	1.0	10.1	.7	1.3	6.3	28.7	34.9	63.7	.7	6.6
10 to 19 employees	E3	174	2.4	29.1	1.8	3.2	17.0	71.8	98.6	170.7	2.1	17.0
20 to 49 employees	E3	195	6.3	87.2	4.5	8.5	49.0	216.6	260.4	476.5	5.0	49.4
50 to 99 employees	E2	96	6.6	105.6	4.9	9.0	59.6	264.1	306.3	570.6	7.5	50.6
100 to 249 employees	-	34	5.1	65.9	3.9	7.4	43.7	175.9	188.4	365.7	7.0	39.3
250 to 499 employees	E1	10	3.6	54.2	2.7	5.4	39.3	108.7	140.8	253.6	2.3	34.6
500 to 999 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	219	.6	5.6	.5	.8	3.7	16.7	17.7	34.4	.5	2.9
<b>INDUSTRY 2517, WOOD TV AND RADIO CABINETS</b>												
Total	E1	83	7.0	88.6	5.9	10.8	66.4	152.1	151.8	306.6	7.3	32.5
Establishments with an average of—												
1 to 4 employees	E8	26	(Z)	.5	(Z)	.1	.4	1.0	1.0	2.0	(Z)	.2
5 to 9 employees	E9	10	.1	.7	.1	.1	.6	1.4	1.3	2.7	(Z)	.3
10 to 19 employees	E6	10	.1	1.6	.1	.2	1.3	2.8	2.3	5.1	(Z)	.7
20 to 49 employees	E2	16	.6	6.0	.5	.9	4.7	10.1	12.4	22.7	.3	2.8
50 to 99 employees	E2	9	.6	6.5	.5	1.0	4.3	13.7	12.8	26.8	.2	3.6
100 to 249 employees	E2	3	.6	6.7	.5	.9	4.8	11.6	9.2	21.1	1.0	1.9
250 to 499 employees	E1	5	1.9	24.5	1.6	2.9	18.4	38.1	38.0	76.7	2.9	5.0
500 to 999 employees	-	3	3.2	42.1	2.6	4.6	31.9	73.3	74.7	149.4	2.8	18.0
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	35	.2	2.2	.2	.4	1.8	4.1	3.7	7.8	.1	.9
<b>INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.</b>												
Total	E2	202	7.4	100.7	6.0	11.7	76.4	153.3	225.6	381.1	11.9	50.3
Establishments with an average of—												
1 to 4 employees	E9	86	.2	1.8	.1	.3	1.7	3.0	4.8	7.8	.2	1.1
5 to 9 employees	E7	28	.2	2.3	.1	.3	1.6	3.9	4.5	8.2	.1	1.2
10 to 19 employees	E5	25	.3	4.3	.3	.5	3.2	8.2	8.4	16.4	.3	2.3
20 to 49 employees	E3	33	1.0	12.6	.8	1.7	9.2	28.1	31.1	60.0	1.1	9.0
50 to 99 employees	E6	13	.9	10.8	.8	1.5	8.0	22.2	21.2	43.3	2.7	7.7
100 to 249 employees	E1	13	2.0	26.2	1.7	3.2	19.4	48.6	57.1	105.9	1.7	14.7
250 to 499 employees	E1	3	2.7	42.7	2.1	4.2	33.3	39.4	98.6	139.4	5.9	14.2
1,000 to 2,499 employees	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	80	.3	2.7	.2	.4	2.3	4.1	6.3	10.5	.2	1.3

See footnotes at end of table.

**Table 4. Industry Statistics by Employment Size of Establishment: 1982—Con.**

Note: For qualifications of data, see footnotes on table 1a. Data shown as a (D) are included in underscored figures above.

<sup>1</sup>Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>Report forms were not mailed to small single-unit companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1982 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective size classes shown.

**Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1982**

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing data for individual companies. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
2511	<b>Wood household furniture:</b> Entire industry Establishments with 75 percent specialization or more	2 607 2 502	125.6 116.1	1 402.7 1 285.4	109.2 101.3	197.2 182.7	1 070.6 984.6	2 715.0 2 503.7	2 317.8 2 140.1	5 056.6 4 668.4	119.1 102.2
25112	Wood living room, library, family room, and den furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	290 176	28.8 14.4	332.0 165.9	24.5 12.3	43.7 21.6	248.9 125.9	681.6 367.1	511.5 283.7	1 195.6 653.8	41.4 19.0
25113	Wood dining room and kitchen furniture, except cabinets: Establishments with this product class primary Establishments with 75 percent specialization or more in class	191 107	27.2 10.0	314.6 108.8	23.6 8.7	41.8 15.8	242.0 83.9	567.2 220.8	479.4 207.8	1 047.4 429.1	23.7 7.0
25115	Wood bedroom furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	234 170	41.3 24.4	469.2 269.7	36.2 21.9	66.0 39.9	357.0 211.1	884.8 538.3	785.7 482.7	1 687.8 1 015.6	30.6 18.0
25116	Infants' and children's wood furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	25 19	3.8 2.7	40.3 26.5	3.3 2.5	6.1 4.4	32.3 21.1	84.2 54.0	80.9 51.6	166.4 107.1	1.6 1.1
25117	Wood outdoor, unpainted, and unassembled furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	82 68	4.8 4.0	54.2 44.3	4.1 3.4	7.3 6.1	38.9 31.6	114.7 97.7	134.8 114.2	246.9 208.3	5.0 4.6
2512	<b>Upholstered household furniture:</b> Entire industry Establishments with 75 percent specialization or more	1 227 1 124	70.6 62.6	849.9 753.5	59.8 53.5	105.6 94.3	637.2 572.1	1 745.3 1 545.1	1 761.5 1 574.5	3 505.3 3 119.8	57.2 44.8
2514	<b>Metal household furniture:</b> Entire industry Establishments with 75 percent specialization or more	454 409	27.0 21.6	362.4 276.7	21.5 17.4	41.8 33.7	240.3 188.6	807.0 623.1	774.1 610.5	1 590.7 1 241.1	25.4 21.6
25141	Metal household dining, dinette, and breakfast furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	40 30	6.1 4.6	82.6 60.5	4.8 3.7	10.0 8.0	52.6 39.8	198.8 156.9	190.6 136.8	393.6 297.6	5.5 4.9
25142	Metal kitchen furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	16 10	.9 (D)	12.2 (D)	.7 (D)	1.4 (D)	8.4 (D)	21.2 (D)	19.9 (D)	41.0 (D)	.4
25143	Metal porch, lawn, outdoor, and casual furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	65 52	8.0 6.0	102.8 71.8	6.6 5.0	12.8 9.4	72.0 52.1	226.8 169.2	193.2 143.0	417.2 312.5	9.5 8.1
25144	Other metal household furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	72 53	8.7 4.9	127.6 68.6	6.8 3.8	12.8 6.9	81.9 43.9	282.2 154.7	289.3 181.1	579.2 339.5	6.3 4.1
2515	<b>Mattresses and bedsprings:</b> Entire industry Establishments with 75 percent specialization or more	902 852	25.4 22.4	357.4 321.0	19.0 16.6	35.6 31.4	218.9 194.3	882.4 810.0	1 047.4 943.8	1 935.4 1 759.4	25.0 22.8
25151	Innerspring mattresses, other than crib size: Establishments with this product class primary Establishments with 75 percent specialization or more in class	308 64	13.1 2.0	208.1 29.5	9.4 1.5	18.0 2.8	123.6 18.5	541.7 59.7	607.5 91.0	1 154.0 150.3	13.3 2.0
25152	Other mattresses, including crib mattresses: Establishments with this product class primary Establishments with 75 percent specialization or more in class	71 31	1.9 .6	24.6 8.2	1.4 .5	2.6 .9	14.4 4.4	64.1 19.4	79.2 25.4	143.2 44.7	3.2 .3
25153	Foundations: Establishments with this product class primary Establishments with 75 percent specialization or more in class	28 10	1.1 .5	14.7 6.8	.8 .4	1.5 .8	8.9 4.3	28.4 9.8	40.7 14.5	69.5 24.8	.7 .4
25155	Dual purpose sleep furniture: Establishments with this product class primary Establishments with 75 percent specialization or more in class	51 23	4.1 1.9	48.8 21.9	3.4 1.6	6.2 2.9	35.6 15.8	94.0 40.6	144.6 61.1	239.2 102.0	3.3 1.8
25156	Sleep system ensembles, except conventional water beds: Establishments with this product class primary Establishments with 75 percent specialization or more in class	7 4	.2 (D)	2.7 (D)	.2 (D)	.3 (D)	1.7 (D)	5.9 (D)	6.0 (D)	11.8 (D)	.2

See footnotes at end of table.

**Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1982—Con.**

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for various reasons; e.g., to avoid disclosing data for individual companies. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry or product class code	Industry or product class by percent of specialization	All establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
25158	Conventional water beds: Establishments with this product class primary Establishments with 75 percent specialization or more in class	11 7	.8 .6	8.9 7.5	.6 .4	1.1 .8	5.3 4.5	18.9 17.7	26.0 19.2	44.5 36.4	.8 .6
2517	Wood TV and radio cabinets: Entire industry Establishments with 75 percent specialization or more	83 75	7.0 6.9	88.6 86.4	5.9 5.7	10.8 10.5	66.4 64.9	152.1 147.4	151.8 148.0	306.6 298.2	7.3 7.3
2519	Household furniture, n.e.c.: Entire industry Establishments with 75 percent specialization or more	202 193	7.4 4.5	100.7 54.6	6.0 3.8	11.7 7.2	76.4 40.9	153.3 112.0	225.6 131.2	381.1 243.8	11.9 8.4

Note: For qualifications of data, see footnotes on table 1a.

**Table 5b. Industry-Product Analysis—Value of Shipments and Primary Product Shipments, Specialization and Coverage Ratios for the Industry: 1982 and Earlier Census Years**

[An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as merchandising or contract work. Columns A-D show this product pattern for an industry, and column E shows primary product specialization ratio. The extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H and coverage ratio is shown in column I. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and product group code	Industry and census year	Value of shipments					Value of primary product shipments				
		Total (million dollars)	Primary products (million dollars)	Secondary products (million dollars)	Miscellaneous receipts (million dollars)	Primary product specialization ratio Col. B ÷ Col. B+C (percent)	Total made in all industries (million dollars)	Made in this industry (million dollars)	Made in other industries (million dollars)	Coverage ratio Col. B ÷ Col. F (percent)	
							A	B	C		
2511	Wood household furniture	1982— 1977— 1972—	5 056.6 4 140.3 2 870.0	4 631.6 3 734.6 2 582.7	257.7 257.8 168.3	167.2 147.9 119.0	95 94 94	4 846.1 3 890.7 2 716.8	4 631.6 3 734.6 2 582.7	214.5 156.1 134.1	96 96 95
2512	Upholstered household furniture	1982— 1977— 1972—	3 505.3 2 931.0 2 104.7	3 149.2 2 614.4 1 887.1	317.3 263.9 168.9	38.8 52.7 48.7	91 91 92	3 319.8 2 735.7 1 990.5	3 149.2 2 614.4 1 887.1	170.6 121.3 103.4	95 96 95
2514	Metal household furniture	1982— 1977— 1972—	1 590.7 1 307.1 890.4	1 393.6 1 124.9 780.0	168.2 142.4 87.2	28.9 39.8 23.2	89 89 90	1 517.4 1 231.2 859.3	1 393.6 1 124.9 780.0	123.7 106.3 79.3	92 91 91
2515	Mattresses and bedsprings	1982— 1977— 1972—	1 935.4 1 398.5 1 048.3	1 800.6 1 278.0 947.8	101.9 74.4 59.2	32.9 46.1 41.3	95 95 94	2 042.6 1 481.5 1 079.6	1 800.6 1 278.0 947.8	242.0 203.5 131.8	88 86 88
2517	Wood TV and radio cabinets	1982— 1977— 1972—	306.6 304.8 330.2	276.4 280.5 267.8	26.5 22.8 45.7	3.7 1.5 16.7	91 92 85	302.4 312.8 293.0	276.4 280.5 267.8	26.1 32.3 25.2	91 90 91
2519	Household furniture, n.e.c.	1982— 1977— 1972—	381.1 301.9 172.6	302.1 237.9 139.8	73.3 61.8 26.2	5.6 2.2 6.6	80 79 84	324.5 281.8 190.3	302.1 237.9 139.8	22.3 43.9 50.5	93 84 73

**Table 5c-1. Industry-Product Analysis—Shipments by Product Class and Industry: 1982**

[Million dollars. Table shows where products of an industry (referred to as primary and listed in table 6a) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Only those product groups that have at least \$2 million in shipments from establishments classified in one of industries included in this chapter are shown. Read across to determine where products of industries in this chapter are produced. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column. Specified "Other industries" are listed in table 5c-2 if they account for more than \$5 million of products primary to this chapter. For meaning of abbreviations and symbols, see explanatory text. For explanation of terms, see appendices]

1982 product code	Product group, product class, and miscellaneous receipts	All industries	Wood household furniture (SIC 2511)	Upholstered household furniture (SIC 2512)	Metal household furniture (SIC 2514)	Mattresses and bedsprings (SIC 2515)	Wood TV and radio cabinets (SIC 2517)	Household furniture, n.e.c. (SIC 2519)	Other industries
	Total.....	(X)	5 056.6	3 505.3	1 590.7	1 935.4	306.6	381.1	(X)
	Primary products.....	(X)	4 631.6	3 149.2	1 393.6	1 800.6	276.4	302.1	(X)
	Secondary products.....	(X)	257.7	317.3	168.2	101.9	26.5	73.3	(X)
	Miscellaneous receipts.....	(X)	167.2	38.8	28.9	32.9	3.7	5.6	(X)
2511-25112	<b>Wood household furniture</b>	4 846.1	4 631.6	74.1	18.4	7.1	19.1	7.9	88.0
	Wood living room, library, family room, and den furniture.....	1 221.7	1 124.9	45.8	(D)	(D)	(D)	(D)	28.5
25113	Wood dining room and kitchen furniture, except cabinets.....	1 014.7	973.8	21.7	6.6	(D)	(D)	(D)	(D)
25115	Wood bedroom furniture.....	1 515.7	1 495.1	5.4	(D)	(D)	(D)	(D)	(D)
25116	Infants' and children's wood furniture.....	158.8	131.4	-	-	-	-	-	27.4
25117	Wood outdoor, unpainted, and unassembled furniture.....	249.9	227.7	(D)	(D)	(D)	(D)	(D)	12.2
25110	Wood household furniture, n.s.k. ....	685.4	678.7	(D)	(D)	(D)	(D)	(D)	5.6
25120	<b>Upholstered wood household furniture, except dual purpose sleep furniture</b> .....	3 319.8	88.7	3 149.2	-	62.0	(D)	(D)	(D)
2514-25141	<b>Metal household furniture</b> .....	1 517.4	14.7	(D)	1 393.6	(D)	-	-	97.2
	Metal household dining, dinette, and breakfast furniture.....	360.7	(D)	(D)	352.7	-	-	-	.8
25142	Metal kitchen furniture.....	61.8	(D)	(D)	(D)	-	-	-	8.0
25143	Metal porch, lawn, outdoor, and casual furniture .....	399.4	(D)	-	380.8	-	-	-	(D)
25144	Other metal household furniture .....	539.2	(D)	(D)	455.1	(D)	-	-	68.1
25140	Metal household furniture, n.s.k. ....	156.3	(D)	(D)	154.1	-	-	-	(D)
2515-	<b>Mattresses and bedsprings</b> .....	2 042.6	12.0	206.8	(D)	1 800.6	-	(D)	(D)
25151	Innerspring mattresses, other than crib size .....	705.3	(D)	(D)	-	695.8	-	-	2.2
25152	Other mattresses, including crib mattresses .....	159.1	(D)	(D)	(D)	136.9	-	-	8.9
25153	Foundations .....	461.3	(D)	6.3	-	452.3	-	-	(D)
25155	Dual purpose sleep furniture .....	396.2	(D)	190.3	-	200.0	-	(D)	3.4
25156	Sleep system ensembles, except conventional water beds .....	23.9	-	(D)	-	(D)	-	-	(D)
25158	Conventional water beds .....	41.3	-	-	-	(D)	-	-	(D)
25150	Mattresses and bedsprings, n.s.k. ....	255.6	(D)	(D)	-	252.6	-	-	(D)
25170	<b>Wood TV, radio, stereo, and sewing machine cabinets</b> .....	302.4	21.8	-	(D)	-	276.4	-	(D)
25190	<b>Household furniture, except wood or metal</b> .....	324.5	3.5	(D)	-	(D)	-	302.1	(D)
	<b>OTHER SHIPMENTS BY FOUR-DIGIT PRODUCT GROUP</b>								
2391-	Curtains and draperies .....	(X)	-	2.1	(D)	-	-	-	(X)
2392-	House furnishings, n.e.c. ....	(X)	(D)	(D)	(D)	4.9	-	(D)	(X)
2393-	Textile bags .....	(X)	(D)	-	(D)	-	-	-	(X)
2399-	Fabricated textile products, n.e.c. ....	(X)	-	(D)	(D)	12.3	-	-	(X)
2421-	Sawmill and planing mill products .....	(X)	2.4	(D)	-	-	-	-	(X)
2426-	Hardwood dimension and flooring .....	(X)	14.9	1.2	-	-	(D)	(D)	(X)
2431-	Millwork .....	(X)	3.5	(D)	-	-	-	-	(X)
2434-	Wood kitchen cabinets .....	(X)	(D)	(D)	(D)	-	(D)	(D)	(X)
2499-	Wood products, n.e.c. ....	(X)	7.9	(D)	(D)	-	-	-	(X)
2521-	Wood office furniture .....	(X)	13.8	(D)	(D)	-	(D)	-	(X)
2522-	Metal office furniture .....	(X)	.8	(D)	(D)	-	-	-	(X)
2531-	Public building and related furniture .....	(X)	(D)	(D)	17.5	-	-	-	(X)
2541-	Wood partitions and fixtures .....	(X)	2.0	(D)	(D)	-	-	-	(X)
2542-	Metal partitions and fixtures .....	(X)	-	(D)	(D)	-	-	-	(X)
2599-	Furniture and fixtures, n.e.c. ....	(X)	3.8	(D)	2.0	1.4	(D)	(D)	(X)
3079-	Miscellaneous plastics products .....	(X)	-	-	(D)	.9	-	16.5	(X)
3231-	Products of purchased glass .....	(X)	45.7	(D)	(D)	-	-	(D)	(X)
3429-	Hardware, n.e.c. ....	(X)	-	-	(D)	-	-	-	(X)
3446-	Architectural and ornamental metal work .....	(X)	-	-	(D)	-	-	-	(X)
3469-	Metal stampings, n.e.c. ....	(X)	-	-	(D)	-	-	-	(X)
3495-	Wire springs .....	(X)	(D)	-	(D)	(D)	-	-	(X)
3499-	Fabricated metal products, n.e.c. ....	(X)	-	-	(D)	-	-	-	(X)
3634-	Electric housewares and fans .....	(X)	(D)	(D)	(D)	-	-	-	(X)
3645-	Residential lighting fixtures .....	(X)	(D)	(D)	(D)	-	-	-	(X)
3677-	Electronic coils and transformers .....	(X)	-	-	-	-	-	(D)	(X)
3679-	Electronic components, n.e.c. ....	(X)	-	-	-	-	-	(D)	(X)
3873-	Watches, clocks, and watchcases .....	(X)	3.2	-	-	-	-	-	(X)
3931-	Musical instruments .....	(X)	-	-	(D)	-	-	-	(X)
3944-	Games, toys, and children's vehicles .....	(X)	3.5	-	26.9	(D)	-	-	(X)
3949-	Sporting and athletic goods, n.e.c. ....	(X)	(D)	-	(D)	(D)	-	-	(X)
3999-	Manufacturing industries, n.e.c. ....	(X)	(D)	-	(D)	-	-	-	(X)
	<b>MISCELLANEOUS RECEIPTS</b>								
93000 00	Receipts for work done for others on their materials .....	(X)	6.6	3.1	1.0	1.0	(D)	(D)	(X)
95120 45	Receipts for repair and renovating mattresses .....	(X)	-	(D)	1.8	(Z)	-	-	(X)
99980 13	Sales of scrap and refuse .....	(X)	1.1	(D)	.3	.3	(Z)	(D)	(X)
99980 63	Receipts for repair, renovating, refurbishing, or reupholstering furniture .....	(X)	(Z)	3.4	-	(D)	-	-	(X)
99980 98	Other miscellaneous receipts, including receipts for repair work, etc. ....	(X)	16.1	1.7	(D)	(D)	(D)	(Z)	(X)
99980 00	Miscellaneous receipts, n.e.c. ....	(X)	2.8	(D)	(D)	.5	-	(D)	(X)
99989 00	Sales of products bought and resold without further manufacture, processing, or assembly at establishment .....	(X)	140.7	30.3	26.7	28.2	(D)	(D)	(X)

**Table 5c-2. Industry-Product Analysis—Other Industries With Shipments of Primary Products: 1982**

[Million dollars. Table is a continuation of table 5c-1 and shows where products of industries in this chapter (referred to as primary products and listed in table 6a) are made. To extent that some of primary products are made in industries not included in this chapter, value of such shipments is shown in "Other industries" column of table 5c-1. Specified "Other industries" are listed in this table if they account for more than \$5 million of products primary to this chapter. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1982 product code	Other industries	Value	1982 product code	Other industries	Value
2511-	<b>WOOD HOUSEHOLD FURNITURE</b>		2514-	<b>METAL HOUSEHOLD FURNITURE—Con.</b>	
	2499 Wood products, n.e.c. -----	8.4		3631 Household cooking equipment -----	(D)
	2521 Wood office furniture -----	14.8		3634 Electric housewares and fans -----	(D)
	3944 Games, toys, and children's vehicles -----	20.0		3841 Surgical and medical instruments -----	(D)
2514-	<b>METAL HOUSEHOLD FURNITURE</b>		2519-	<b>HOUSEHOLD FURNITURE, N.E.C.</b>	
	3469 Metal stampings, n.e.c. -----	(D)		3079 Miscellaneous plastics products -----	5.8
	3499 Fabricated metal products, n.e.c. -----	12.3			
	3559 Special industry machinery, n.e.c. -----	(D)			

**Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>	Value (million dollars)	Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>	Value (million dollars)
<b>WOOD HOUSEHOLD FURNITURE</b>							
2511- —	Total -----	(NA)	(X)	4 846.1	(NA)	(X)	3 890.7
25112 —	Wood living room, library, family room, and den furniture, except sewing machine cabinets -----	(NA)	(X)	1 221.7	(NA)	(X)	859.8
25112 19	Cabinets (including record, music, sewing, smoking, etc.), except sewing machine, radio, phono, and TV cabinets -----	57	(X)	129.2	35	(X)	61.6
25112 33	Chairs, except dining room ----- thousands	58	(S)	62.6	33	*2 019.8	48.1
25112 35	Rockers ----- do	26	(S)	37.1	23	**494.7	23.4
25112 41	Tables (all types), except card and telephone tables ----- do	201	**6 010.4	499.5	155	9 844.0	441.4
25112 51	Desks ----- do	70	(S)	137.7	53	*535.8	58.0
25112 71	Credenzas, bookcases, and bookshelves (except wall units) -----	43	(X)	71.7	64	(X)	77.4
25112 81	Wall units (desk, bookcase, and storage type) ----- do	82	(S)	123.5			
25112 99	Other nonupholstered living room furniture (settees, love seats, benches, secretaries, breakfronts, bars, cellarettes, magazine racks, smoking stands, ornamental screens, what-nots, hanging shelves, telephone tables and chairs, piano stools, benches, card tables and chairs, etc.) -----	103	(X)	105.3	65	(X)	90.7
25112 00	Wood living room, library, family room, and den furniture, except sewing machine cabinets, n.s.k. -----	(NA)	(X)	55.0	(NA)	(X)	59.2
25113 —	Wood dining room and kitchen furniture, except cabinets -----	(NA)	(X)	1 014.7	(NA)	(X)	962.3
25113 11	Tables, 30 x 40 in. and greater, dining room ----- thousands	152	(S)	250.7	133	*1 673.8	224.4
25113 31	Chairs, dining room ----- do	151	**6 049.2	378.8	140	**10 526.9	375.6
25113 51	Buffets and servers, dining room ----- do	90	**468.1	107.8	86	**795.9	132.5
25113 71	China and corner cabinets, dining room ----- do	81	*669.7	156.4	71	*588.7	128.0
25113 98	Other dining and kitchen furniture, including breakfast sets, junior dining room furniture, chairs, stools and tables not sold as a set -----	52	(X)	83.8	45	(X)	45.2
25113 00	Wood dining room and kitchen furniture, except cabinets, n.s.k. -----	(NA)	(X)	37.3	(NA)	(X)	56.6
25115 —	Wood bedroom furniture -----	(NA)	(X)	1 515.7	(NA)	(X)	1 290.3
25115 11	Beds (excluding headboards, headboard beds, bunk beds, cribs, cradles, Hollywood beds and youth beds) ----- thousands	97	(S)	188.1	74	*1 626.4	110.3
25115 13	Headboards and headboard beds, including padded ----- do	103	(S)	188.2	90	*3 553.9	168.8
25115 15	Bunk beds (excluding mattresses and detachable springs) ----- do	39	(S)	48.7	37	*446.1	30.4
25115 21	Dressers, vanities, and dressing tables ----- do	117	*1 967.4	325.8	113	*3 075.8	343.9
25115 33	Wardrobes, chiffidores, armoires, wardrobe type cabinets ----- do	44	(S)	76.8	43	**204.7	44.4
25115 35	Chests of drawers ----- do	104	*2 099.5	257.6	98	*2 722.3	226.2
25115 41	Cedar chests ----- do	11	*219.2	34.9	10	256.5	26.4
25115 61	Night tables and stands ----- do	93	**2 221.7	161.2	94	*2 899.0	133.5
25115 98	Other nonupholstered bedroom furniture, including commodes, bed rails, chairs, rockers, benches, valet stands, etc. -----	59	205.3	165.5	47	(X)	123.6
25115 00	Wood bedroom furniture, n.s.k. -----	(NA)	(X)	69.1	(NA)	(X)	82.8
25116 —	Infants' and children's wood furniture -----	(NA)	(X)	158.8	(NA)	(X)	118.8
25116 11	Crib, including springs sold as part of the crib ----- thousands	13	(S)	74.8	11	(S)	47.7
25116 99	Other infants' and children's furniture (chairs, tables, wardrobes, cradles, youth beds, chests of drawers, baby baths, nursery seats and chairs, high chairs and combination of feeding chair-tables, play yards and play pens, etc.) -----	27	(X)	83.8	(NA)	(X)	59.3
25116 00	Infants' and children's wood furniture, n.s.k. -----	(NA)	(X)	.1	(NA)	(X)	11.8

See footnotes at end of table.

**Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.**

(Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text)

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>	
			Quantity <sup>2</sup>	Value (million dollars)		Quantity <sup>2</sup>	Value (million dollars)
<b>WOOD HOUSEHOLD FURNITURE—Con.</b>							
25117 —	Wood outdoor furniture, unpainted wood furniture, and unassembled and knock-down wood furniture	(NA)	(X)	249.9	(NA)	(X)	185.8
25117 21	Porch, lawn, beach, and similar wood furniture: Chairs, rockers, benches, and chaise lounges, including steamer and deck chairs	20	(S)	62.4	16	**2 468.7	53.2
25117 29	Other wood porch, lawn, beach, and similar furniture, including gliders, swings, folding cots, tables, and picnic table sets	22	(X)	37.5	18	(X)	24.3
25117 48	Unpainted wood furniture (furniture-in-the-white) (bookcases, chairs, tables, beds, vanities, dressing tables, desks, corner cabinets, folding screens, hanging shelves, wardrobes, chests of drawers, etc.)	37	(X)	88.4	(NA)	(X)	50.4
25117 61	Unassembled or knock-down wood household furniture, unpainted or finished, sold in kits	19	(X)	49.2	24	(X)	46.7
25117 00	Wood outdoor furniture, unpainted wood furniture, and unassembled and knock-down wood furniture, n.s.k.	(NA)	(X)	12.5	(NA)	(X)	11.2
25110 00	Wood household furniture, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	534.7	(NA)	(X)	286.1
25110 02	Wood household furniture, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	150.7	(NA)	(X)	187.6
<b>UPHOLSTERED HOUSEHOLD FURNITURE</b>							
2512—	<b>Total</b>	(NA)	(X)	3 319.8	(NA)	(X)	2 735.7
25120 —	Upholstered wood household furniture, except dual purpose sleep furniture:						
25120 12	Sofas, davenports (excluding dual purpose), settees, and love seats, excluding chairs sold as part of suites and sectional sofa pieces	424	**6 414.8	1 397.7	492	6 729.1	1 194.2
	thousands		*3 737.2	510.0	372	5 077.8	469.4
25120 32	Chairs, except reclining	310					
25120 41	Sectional sofa pieces, including pieces seating one person	135	**639.1	132.9	120	*801.4	106.0
25120 45	Rockers, including swivel rockers	120	(S)	137.3	136	*1 438.0	120.6
25120 54	Reclining chairs, all types	54	*3 037.0	524.7	48	3 504.8	352.9
25120 98	Other upholstered wood household furniture (ottomans, hassocks, bedroom chairs, benches, chaise lounges, etc.)	106	(X)	111.1	102	(X)	99.4
25120 00	Upholstered household furniture, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	410.5	(NA)	(X)	289.2
25120 02	Upholstered household furniture, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	95.6	(NA)	(X)	104.0
<b>METAL HOUSEHOLD FURNITURE</b>							
2514—	<b>Total</b>	(NA)	(X)	1 517.4	(NA)	(X)	1 231.2
25141 —	Metal household dining, dinette, and breakfast furniture	(NA)	(X)	360.7	(NA)	(X)	319.1
	Tubular metal, including chairs whether padded or plain:						
25141 11	Sets (tables and chairs)	30	1 387.8	266.6	40	2 260.9	246.1
25141 15	Tables (not sold with a set)	20	*857.2	33.0	12	*675.3	16.9
25141 17	Chairs (not sold with a set)	13	*997.1	18.4	16	**923.7	13.4
25141 98	Other metal dining, dinette, and breakfast furniture	8	(X)	41.2	14	(X)	35.7
25141 00	Metal household dining, dinette, and breakfast furniture, n.s.k.	(NA)	(X)	1.5	(NA)	(X)	7.0
25142 —	Metal kitchen furniture	(NA)	(X)	61.8	(NA)	(X)	73.4
	Kitchen furniture, excluding furniture reported as dining, dinette, and breakfast furniture:						
25142 11	Cabinets, such as base, top and base, wall, utility, etc. --- thousands	16	744.9	27.2	17	(X)	49.6
25142 51	Stools, padded and plain	10	975.5	25.6	11	1 142.5	17.2
25142 71	Tables, including hostess carts	4	(S)	5.3	4	307.1	5.5
25142 00	Metal kitchen furniture, n.s.k.	(NA)	(X)	3.7	(NA)	(X)	1.1
25143 —	Metal porch, lawn, outdoor, and casual furniture	(NA)	(X)	399.4	(NA)	(X)	275.9
	Tubular aluminum:						
25143 12	Chairs, rockers, benches, chaise lounges, and settees --- thousands	31	*3 893.3	215.6	21	**11 304.0	122.5
25143 14	Other tubular aluminum porch, lawn, and outdoor furniture, including gliders, swings, hammocks, and tables	18	(X)	55.8	11	(X)	29.2
	Cast and wrought iron:						
25143 22	Chairs, rockers, benches, chaise lounges, and settees --- thousands	11	819.4	46.1	17	1 221.2	44.7
25143 24	Other cast and wrought iron porch, lawn, and outdoor furniture, including gliders, swings, hammocks, and tables	13	(X)	35.1	11	(X)	15.5
25143 98	Other metal porch, lawn, outdoor, and casual furniture, including picnic tables	15	(X)	27.0	13	(X)	37.4
25143 00	Metal porch, lawn, outdoor, and casual furniture, n.s.k.	(NA)	(X)	19.8	(NA)	(X)	26.6
25144 —	Other metal household furniture	(NA)	(X)	539.2	(NA)	(X)	445.5
25144 33	Folding cots, rollable cots, army cots, and other metal beds	19	*921.6	57.5	14	**687.7	15.6
25144 37	Metal bed frames (complete metal bed frames, sold separately, with or without a headboard)	41	(S)	93.2	32	**6 797.4	77.8
25144 55	Upholstered metal household furniture	7	(X)	9.9	7	(X)	12.4
25144 71	Card tables and chairs	3	(X)	(D)	2	(X)	(D)
25144 75	Medicine cabinets, including wall type and insert type	16	**2 371.9	70.9	13	**3 804.4	72.1

See footnotes at end of table.

**Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text.]

1982 product code	Product	1982			1977			
		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>		
			Quantity <sup>2</sup>	Value (million dollars)		Quantity <sup>2</sup>	Value (million dollars)	
<b>METAL HOUSEHOLD FURNITURE—Con.</b>								
25144 —	Other metal household furniture —Con.							
25144 91	Metal radio, phonograph, TV, and hi-fi cabinets	3	(D)	(D)	5	*295.4	5.1	
25144 92	Infants' high chairs	11	1 000.0	20.8	9	985.2	12.2	
25144 93	Infants' car seats	5	1 032.0	35.6	7	**1 051.3	19.7	
25144 94	Other infants' and children's metal furniture, including chairs, tables, play pens, play yards, and portable cribs	do	8	2 026.2	60.0	11	**3 066.5	47.6
25144 97	Other metal household furniture, including metal folding trays	40	(X)	130.1	(NA)	(X)	(D)	
25144 00	Other metal household furniture, n.s.k.	(NA)	(X)	11.7	(NA)	(X)	32.5	
25140 00	Metal household furniture, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	113.9	(NA)	(X)	87.5	
25140 02	Metal household furniture, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	42.4	(NA)	(X)	29.8	
<b>MATTRESSES AND BEDSPRINGS</b>								
2515— —	<b>Total</b>	(NA)	(X)	2 042.6	(NA)	(X)	1 481.5	
25151 —	Innerspring mattresses, other than crib size:							
25151 00	Innerspring mattresses, other than crib size, including those with polyurethane or rubber topper pads and those sold as part of Hollywood beds (excluding inserts)	274	**9 375.8	705.3	254	*9 638.1	492.6	
25152 —	Other mattresses, including crib mattresses and mattress inserts	(NA)	(X)	159.1	(NA)	(X)	108.3	
25152 11	Crib mattresses, all types, including crib size mattresses made with innersprings, polyurethane, latex foam, hair, cotton felt, etc.	16	(S)	29.6	14	*1 356.2	17.9	
25152 15	Foam core mattresses, other than crib size	68	(S)	53.5	(NA)	1 726.7	65.5	
25152 47	Other mattresses, including those made of cotton felt, hair, etc., excluding mattresses for cribs, hybrid type flotation, air, and adjustable ensembles	do	24	**1 160.3	37.0	10	(S)	6.9
25152 67	Mattress inserts for dual purpose sleep furniture:							
26152 69	Innerspring	20	(S)	11.3				
25152 00	Foam	6	(S)	3.4				
25152 00	Other mattresses, including crib mattresses and mattress inserts, n.s.k.	(NA)	(X)	24.3	(NA)	(X)	18.0	
25153 —	Foundations (excluding innerspring units, foundations incorporated into hybrid flotation, air, and adjustable ensembles)	(NA)	(X)	461.3	(NA)	(X)	360.6	
25153 15	Spring	133	(S)	367.0				
25153 17	Foam	35	*618.5	30.2				
25153 19	Other foundations, including platform	do	(S)	15.7				
25153 00	Foundations (excluding innerspring units, foundations incorporated into hybrid flotation, air, and adjustable ensembles) n.s.k.	(NA)	(X)	48.4	(NA)	(X)	23.8	
25155 —	Dual purpose sleep furniture	(NA)	(X)	396.2	(NA)	(X)	334.4	
25155 12	Convertible sofas, (hidden separate mattress which forms sleeping surface and folds up beneath the seat)	193	(S)	365.9	(NA)	(S)	302.6	
25155 16	All other dual purpose sleep furniture, including jackknife sofa beds and chair beds (back lowers to seat level by means of jackknife hinge and forms half the sleeping surface) and studio couches	do	35	(S)	30.3	(NA)	(S)	31.8
25155 00	Dual purpose sleep furniture, n.s.k.	(NA)	(X)	—	(NA)	(X)	—	
25156 —	Sleep system ensembles, excluding conventional water beds	(NA)	(X)	23.9				
25156 13	Hybrid type flotation ensemble	22	(S)	9.9				
25156 15	Air bed ensemble	2	(D)	(D)				
25156 19	Electric adjustable sleep ensemble (excluding hospital beds)	9	(D)	(D)				
25156 00	Sleep system ensembles, excluding conventional water beds, n.s.k.	(NA)	(X)	3.3				
25158 —	Conventional water beds:							
25158 00	Conventional water beds	16	(S)	41.3	(NA)	(X)	(3)	
25150 00	Mattresses and bedsprings, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	221.2	(NA)	(X)	3147.7	
25150 02	Mattresses and bedsprings, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	34.4	(NA)	(X)	37.9	
<b>WOOD TV AND RADIO CABINETS</b>								
2517— —	<b>Total</b>	(NA)	(X)	302.4	(NA)	(X)	312.8	
25170 —	Wood television, radio, stereo, and sewing machine cabinets:							
25170 12	Console phonograph cabinets	3	(S)	51.3	3	*1 450.5	82.3	
25170 14	Other audio cabinets, including radio, phonograph, stereo, and speaker cabinets	23			27			
25170 15	Television cabinets and combinations, TV, stereo, and radio	do						
25170 21	Sewing machine cabinets	22	3 753.4	211.9	23	4 512.9	171.1	
25170 00	Wood television, radio, stereo, and sewing machine cabinets, n.s.k., typically for establishments with 10 employees or more (see note)	9	246.2	24.6	10	651.5	41.7	
25170 02	Wood television, radio, stereo, and sewing machine cabinets, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	6.8	(NA)	(X)	12.3	
		(NA)	(X)	7.8	(NA)	(X)	5.4	

See footnotes at end of table.

**Table 6a. Product and Product Classes—Quantity and Value of Shipments by All Producers: 1982 and 1977—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For further explanation, see Value of Shipments in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 product code	Product	1982			1977		
		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>		Number of companies with shipments of \$100,000 or more	Product shipments <sup>1</sup>	
			Quantity <sup>2</sup>	Value (million dollars)		Quantity <sup>2</sup>	Value (million dollars)
<b>HOUSEHOLD FURNITURE, N.E.C.</b>							
2519 —	Total	(NA)	(X)	324.5	(NA)	(X)	281.8
25190 —	Household furniture, except wood or metal:						
25190 11	Plastics and fibrous glass cabinets, including radio, phonograph, TV, stereo, and combinations thereof thousands	16	(S)	89.3	23	(S)	85.1
25190 32	Reed and rattan furniture, including willow, wicker, and cane	28	(X)	87.3	14	(X)	42.4
25190 41	Other plastics and fibrous glass household furniture, except cabinets	28	(X)	88.2	45	(X)	87.3
25190 98	Other household furniture, except wood, metal, plastics, or fibrous glass, including corrugated furniture	13	(X)	26.9	13	(X)	35.5
25190 00	Household furniture, n.e.c., n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	22.3	(NA)	(X)	16.1
25190 02	Household furniture, n.e.c., n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	10.5	(NA)	(X)	15.4

Note: In 1982 Census of Manufactures, data for establishments of small single-unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoff used for administrative records for each industry and shipments figures are included in code ending with "002". In both 1982 and 1977 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

<sup>1</sup>Data reported by all producers, not just those with shipments of \$100,000 or more.

<sup>2</sup>For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: \* 10 to 19 percent estimated; \*\* 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

<sup>3</sup>For 1977, product classes 25156 and 25158 were included with product code 25150 00.

**Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1982 and 1977**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1982. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Product class and geographic area	1982 value of product shipments	1977 value of product shipments	Product class and geographic area	1982 value of product shipments	1977 value of product shipments
<b>25112, WOOD LIVING ROOM, LIBRARY, FAMILY ROOM, AND DEN FURNITURE</b>			<b>25113, WOOD DINING ROOM AND KITCHEN FURNITURE, EXCEPT CABINETS—Con.</b>		
United States	1 221.7	859.8	Illinois	31.7	10.9
Alabama	32.2	30.7	Indiana	39.9	44.2
California	110.2	64.1	Massachusetts	45.2	33.9
Connecticut	7.4	2.9	Michigan	21.7	13.5
Florida	4.0	3.2	Missouri	8.7	(BB)
Georgia	29.4	27.5	New Hampshire	4.3	4.4
Illinois	17.9	11.5	New Jersey	17.8	1.6
Indiana	63.1	53.2	New York	45.9	30.3
Kentucky	7.6	4.8	North Carolina	417.6	431.9
Maryland	12.5	(CC)	Pennsylvania	29.3	19.0
Massachusetts	31.7	29.8	Tennessee	21.4	27.0
Michigan	38.2	46.1	Texas	9.9	13.4
Mississippi	22.8	11.0	Virginia	123.5	121.7
New Jersey	10.2	3.7			
New York	44.0	29.0			
North Carolina	314.4	206.4	<b>25115, WOOD BEDROOM FURNITURE</b>		
Pennsylvania	32.3	16.7	United States	1 515.7	1 290.3
South Carolina	6.2	4.6	Alabama	35.1	34.8
Tennessee	44.5	29.7	Arizona	13.4	(NA)
Texas	17.2	18.0	Arkansas	22.6	58.8
Virginia	148.2	95.3	California	146.5	91.0
Wisconsin	22.7	21.5	Connecticut	4.6	(BB)
			Florida	35.8	26.6
			Georgia	20.2	25.8
<b>25113, WOOD DINING ROOM AND KITCHEN FURNITURE, EXCEPT CABINETS</b>			Indiana	14.4	18.9
United States	1 014.7	962.3	Kentucky	19.3	13.9
Alabama	8.2	6.1	Massachusetts	8.9	3.6
Arkansas	13.7	16.6	Michigan	14.5	5.5
California	63.5	68.8	Minnesota	2.5	(CC)
Florida	2.8	2.7	Missouri	7.5	(BB)
Georgia	24.0	12.2	New Jersey	5.8	4.3
			New York	27.8	19.7

See footnotes at end of table.

**Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1982 and 1977—Con.**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1982. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Product class and geographic area	1982 value of product shipments	1977 value of product shipments	Product class and geographic area	1982 value of product shipments	1977 value of product shipments
<b>25115, WOOD BEDROOM FURNITURE—Con.</b>			<b>25151, INNERSPRING MATTRESSES, OTHER THAN CRIB SIZE</b>		
North Carolina -----	532.6	409.7	United States -----	705.3	492.6
Ohio -----	3.5	(AA)	Alabama -----	6.3	8.6
Pennsylvania -----	33.4	29.7	Arkansas -----	4.4	(AA)
South Carolina -----	55.3	35.9	California -----	108.4	62.8
Tennessee -----	109.8	99.0	Colorado -----	10.3	8.3
Texas -----	18.6	37.2	Florida -----	57.5	22.8
Virginia -----	300.9	244.3	Georgia -----	25.2	20.0
Washington -----	2.2	(BB)	Hawaii -----	3.9	(AA)
Wisconsin -----	11.9	(CC)	Illinois -----	25.7	21.8
			Indiana -----	13.2	12.0
			Kansas -----	9.5	(CC)
			Kentucky -----	5.5	5.5
			Louisiana -----	4.0	2.5
			Massachusetts -----	10.6	10.4
<b>25116, INFANTS' AND CHILDREN'S WOOD FURNITURE</b>			Michigan -----	12.9	12.6
United States -----	158.8	118.8	Minnesota -----	10.9	8.9
California -----	20.2	(CC)	Mississippi -----	4.7	3.1
Wisconsin -----	38.6	20.6	Missouri -----	15.4	12.2
<b>25117, WOOD OUTDOOR, UNPAINTED, AND UNASSEMBLED FURNITURE</b>			New Jersey -----	62.9	35.5
United States -----	249.9	185.8	New York -----	21.0	12.5
Alabama -----	2.3	(AA)	North Carolina -----	20.9	13.1
California -----	54.2	48.3	Ohio -----	40.3	41.1
Georgia -----	17.9	8.2	Oklahoma -----	8.1	9.9
Indiana -----	13.0	12.1	Pennsylvania -----	23.3	19.2
New York -----	16.4	7.1	Tennessee -----	22.0	16.8
North Carolina -----	6.3	8.3	Texas -----	71.2	47.3
Pennsylvania -----	20.7	16.2	Virginia -----	9.4	7.9
Tennessee -----	8.2	(AA)	Washington -----	8.8	10.5
Texas -----	12.3	(BB)	West Virginia -----	5.6	4.0
Wisconsin -----	10.8	4.8	<b>25152, OTHER MATTRESSES, INCLUDING CRIB MATTRESSES</b>		
			United States -----	159.1	108.3
<b>25141, METAL HOUSEHOLD DINING, DINETTE, AND BREAKFAST FURNITURE</b>			Alabama -----	4.9	1.7
United States -----	360.7	319.1	California -----	22.8	15.9
California -----	120.5	72.4	Florida -----	10.0	9.0
Florida -----	3.4	(AA)	Georgia -----	5.1	8.9
New York -----	8.0	9.4	Illinois -----	13.8	11.0
North Carolina -----	49.3	31.4	Massachusetts -----	13.5	2.5
Pennsylvania -----	22.5	26.5	Michigan -----	2.7	2.4
			Mississippi -----	2.5	(AA)
			New Jersey -----	5.6	2.3
			New York -----	8.3	4.6
<b>25142, METAL KITCHEN FURNITURE</b>			North Carolina -----	5.2	1.7
United States -----	61.8	73.4	Ohio -----	11.7	5.3
Illinois -----	14.2	28.6	Pennsylvania -----	9.4	8.4
Pennsylvania -----	5.8	(BB)	Texas -----	14.1	7.8
<b>25143, METAL PORCH, LAWN, OUTDOOR, AND CASUAL FURNITURE</b>			Virginia -----	5.4	1.7
United States -----	399.4	275.9	Washington -----	3.1	4.6
Alabama -----	43.6	25.2	Wisconsin -----	3.5	(AA)
California -----	72.3	41.0	<b>25153, FOUNDATIONS</b>		
Florida -----	45.4	24.2	United States -----	461.3	360.6
Georgia -----	16.2	(EE)	Alabama -----	5.8	3.0
New York -----	23.5	15.2	Arizona -----	3.5	2.1
North Carolina -----	38.5	20.1	Arkansas -----	4.3	(AA)
Tennessee -----	24.3	(EE)	California -----	56.7	42.9
Texas -----	30.4	24.5	Colorado -----	7.4	4.8
<b>25144, OTHER METAL HOUSEHOLD FURNITURE</b>			Florida -----	32.9	14.2
United States -----	539.2	445.5	Georgia -----	18.8	21.1
California -----	100.1	72.4	Illinois -----	26.9	17.6
Illinois -----	76.6	78.8	Indiana -----	11.3	7.2
Indiana -----	55.2	38.4	Kansas -----	2.1	3.9
Massachusetts -----	10.6	10.8	Kentucky -----	3.3	5.0
Michigan -----	4.9	(AA)	Louisiana -----	2.5	2.1
Missouri -----	14.3	10.0	Massachusetts -----	9.2	9.5
New Jersey -----	14.9	11.0	Michigan -----	9.8	7.9
New York -----	12.9	15.2	Minnesota -----	7.0	5.7
Ohio -----	78.4	51.7	Missouri -----	3.8	6.8
Pennsylvania -----	38.1	35.0	New Jersey -----	38.5	18.4
Texas -----	22.9	8.5	New York -----	10.2	9.2
Virginia -----	4.0	(BB)	North Carolina -----	17.2	10.6
			Ohio -----	27.2	39.3

See footnotes at end of table.

**Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1982 and 1977—Con.**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 1982. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1982 value of product shipments	1977 value of product shipments	Product class and geographic area	1982 value of product shipments	1977 value of product shipments
<b>25155, DUAL PURPOSE SLEEP FURNITURE</b>			<b>25155, DUAL PURPOSE SLEEP FURNITURE—Con.</b>		
United States	396.2	334.4	Tennessee	26.2	(NA)
Arkansas	8.5	(NA)	Texas	38.1	(NA)
California	60.0	(NA)	Utah	2.0	(NA)
Colorado	3.1	(NA)	Virginia	2.6	(NA)
Florida	16.7	(NA)	Washington	2.7	(NA)
Georgia	20.1	(NA)	Wisconsin	12.7	(NA)
Illinois	2.0	(NA)			
Indiana	10.2	(NA)			
Iowa	5.2	(NA)	<b>25156, SLEEP SYSTEM ENSEMBLES, EXCEPT CONVENTIONAL WATER BEDS</b>		
Mississippi	46.5	(NA)	United States	23.9	(NA)
Missouri	16.0	(NA)	California	8.4	(NA)
New Jersey	11.9	(NA)			
New York	3.7	(NA)	<b>25158, CONVENTIONAL WATER BEDS</b>		
North Carolina	61.8	(NA)	United States	41.3	(NA)
Ohio	10.2	(NA)	California	33.5	(NA)
Pennsylvania	11.7	(NA)			

Note: For 1977, the following value ranges (in million dollars) substitute for actual figures withheld to avoid disclosing data for individual companies: AA—less than \$2.0 but not 0; BB—\$2.0 to \$4.9; CC—\$5.0 to \$9.9; EE—\$10.0 to \$19.9; FF—\$20.0 to \$49.9; GG—\$50.0 or more.

**Table 6c. Product Classes—Value Shipped by All Producers: 1982 and Earlier Years**

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1982 product code	Product class	1982	1981 <sup>1</sup>	1980 <sup>1</sup>	1979 <sup>1</sup>	1978 <sup>1</sup>	1977	1972	1967
2511-	<b>Wood household furniture</b>	4 846.1	5 220.3	4 889.0	4 738.1	4 639.9	3 890.7	2 716.8	1 791.5
25112	Wood living room, library, family room, and den furniture	1 221.7	1 367.8	1 257.0	1 132.0	1 042.7	859.8	614.4	395.4
25113	Wood dining room and kitchen furniture, except cabinets	1 014.7	1 151.7	1 094.0	1 140.7	1 105.4	962.3	603.6	375.7
25115	Wood bedroom furniture	1 515.7	1 715.8	1 668.8	1 697.4	1 569.4	1 290.3	1 029.2	694.7
25116	Infants' and children's wood furniture	158.8	277.6	243.7	207.7	123.7	118.8	82.5	44.5
25117	Wood outdoor, unpainted, and unassembled furniture	249.9	196.1	155.0	162.1	250.1	185.8	107.9	63.8
25110	Wood household furniture, n.s.k.	685.4	511.3	470.5	398.1	(S)	473.7	279.2	217.4
25120	<b>Upholstered wood household furniture, except dual purpose sleep furniture</b>	3 319.8	3 562.5	3 330.6	3 241.5	3 184.7	2 735.7	1 990.5	1 163.1
2514-	<b>Metal household furniture</b>	1 517.4	1 498.0	1 434.1	1 431.3	1 358.7	1 231.2	859.3	587.8
25141	Metal household dining, dinette, and breakfast furniture	360.7	376.0	347.6	351.5	353.5	319.1	245.6	163.1
25142	Metal kitchen furniture	61.8	102.3	102.1	103.7	73.3	73.4	71.4	56.5
25143	Metal porch, lawn, outdoor, and casual furniture	399.4	364.0	348.8	346.8	319.0	275.9	177.1	109.7
25144	Other metal household furniture	539.2	545.4	519.8	526.1	475.9	445.5	311.4	208.0
25140	Metal household furniture, n.s.k.	156.3	110.4	115.8	103.1	(S)	117.3	53.8	50.5
2515-	<b>Mattresses and bedsprings</b>	2 042.6	2 220.3	2 043.9	1 905.3	1 628.2	1 481.5	1 079.6	709.6
25151	Innerspring mattresses, other than crib size	705.3	739.6	669.8	640.8	532.3	492.6	336.6	240.2
25152	Other mattresses, including crib mattresses	159.1	141.4	130.6	100.4	108.7	108.3	78.4	57.6
25153	Foundations	461.3	561.7	508.5	464.8	414.2	360.6	277.8	177.9
25155	Dual purpose sleep furniture	396.2	578.6	554.2	509.8	349.0	334.4	265.0	153.0
25156	Sleep system ensembles, except conventional water beds	23.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25158	Conventional water beds	41.3	199.0	180.7	189.6	(S)	185.6	121.8	80.9
25150	Mattresses and bedsprings, n.s.k.	255.6							
25170	<b>Wood TV, radio, stereo, and sewing machine cabinets</b>	302.4	296.9	309.7	320.9	353.1	312.8	293.0	(NA)
25190	<b>Household furniture, except wood or metal</b>	324.5	413.6	379.5	324.0	328.4	281.8	190.3	79.0

<sup>1</sup>Figures are estimates derived from a representative sample of manufacturing establishments canvassed in annual survey of manufactures and, therefore, may differ from results that would be obtained from a complete canvass of all manufacturing establishments. Standard errors associated with estimates are published in annual survey of manufactures volumes for this period.

**Table 7. Materials Consumed by Kind: 1982 and 1977**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 material code	Material	1982		1977	
		Quantity <sup>1</sup>	Delivered cost (million dollars)	Quantity <sup>1</sup>	Delivered cost (million dollars)
<b>INDUSTRY 2511, WOOD HOUSEHOLD FURNITURE</b>					
	Materials, parts, and supplies -----	(X)	2 082.0	(X)	1 740.6
242111	Hardwood lumber, rough and dressed ----- mil bd ft--	(S)	299.5	*1 069.7	288.8
242123	Softwood lumber, rough and dressed ----- do--	**366.9	116.9	**423.5	102.0
242620	Hardwood dimension and parts, excluding furniture parts ----- do--	(S)	147.0	(S)	100.0
243601	Softwood plywood ----- mil sq ft (3/8 in. basis)--	(S)	16.6	**42.0	10.6
243511	Hardwood plywood other than container type: Veneer core ----- mil sq ft (surf meas)--	(S)	24.4	**246.9	29.6
243513	Lumber core, including particleboard core ----- do--	*63.6	26.5	**106.2	24.2
243540	Hardwood veneer ----- do--	(S)	79.9	(S)	60.6
249200	Particleboard (wood) ----- mil sq ft (3/4 in. basis)--	(S)	88.5	(S)	67.1
249970	Medium density fiberboard (MDF) ----- do--	**87.5	47.0	(S)	31.6
249960	Hardboard (wood fiberboard) ----- mil sq ft (1/8 in. basis)--	(S)	26.4	(S)	36.2
242661	Furniture frames, wood -----	(X)	51.9	(X)	48.3
285101	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products ----- mil gal--	(S)	110.9	**26.5	91.3
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes ----- mil lb--	(S)	1.3	(S)	3.2
307931	Plastics laminated sheets -----	(X)	18.2	(X)	20.7
307905	Plastics products consumed in the form of rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets -----	(X)	2.2	(X)	2.8
321101	Flat glass (plate, float, and sheet) ----- mil sq ft--	(S)	34.7	(S)	17.8
323150	Mirrors, framed and unframed ----- do--	(S)	17.5	(S)	19.9
342901	Furniture and builders' hardware, including cabinet hardware, glides, handles, hinges, locks, casters, etc. -----	(X)	122.1	(X)	97.0
307951	Plastics furniture parts and components -----	(X)	20.3	(X)	33.4
970099	All other materials and components, parts, containers, and supplies -----	(X)	392.8	(X)	404.0
971000	All other materials, parts, containers, and supplies, n.s.k. <sup>2</sup> -----	(X)	437.4	(X)	251.5
<b>INDUSTRY 2512, UPHOLSTERED HOUSEHOLD FURNITURE</b>					
	Materials, parts, containers, and supplies -----	(X)	1 692.9	(X)	1 450.2
242111	Hardwood lumber, rough and dressed ----- mil bd ft--	(S)	62.6	**297.9	63.9
242123	Softwood lumber, rough and dressed ----- do--	**127.4	31.3	**107.8	23.2
242620	Hardwood dimension and parts, excluding furniture frames ----- do--	(S)	22.7	(S)	18.9
242661	Furniture frames, wood -----	(X)	119.0	(X)	130.0
300003	Foam cores for mattresses, urethane and rubber, excluding topper pads ----- thousands--	(S)	31.9	(S)	22.7
307921	Formed and slab stock for pillows, cushion seatings, etc. (urethane) ----- mil lb--	(S)	156.3	(S)	138.5
229308	Paddings, battings, and fillings, except rubber and plastics foam ----- do--	(S)	61.8	(S)	31.2
207431	Cotton linters (net weight) ----- do--	(S)	7.5	(S)	10.8
190019	Cotton waste ----- do--	**3.0	.8	(S)	1.5
229508	Coated or laminated fabric for upholstery, including vinyl coated ----- mil lin yd--	(S)	37.5	(S)	57.3
221161	Woven upholstery fabrics, excluding ticking and muslin: Cotton ----- do--	(S)	90.5	(S)	92.6
222103	Other (rayon, nylon, polyester, etc.) ----- do--	(S)	351.3	(S)	311.2
349538	Springs, innerspring units, and box spring constructions ----- 1,000 s tons--	(S)	36.1	(S)	40.5
349555	Constructions (mechanisms) for dual purpose sleep furniture -----	(X)	41.0	(X)	32.5
285101	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products ----- mil gal--	(S)	11.3	2.3	7.3
342901	Furniture and builders' hardware, including cabinet hardware, glides, handles, hinges, locks, casters, etc. -----	(X)	22.4	(X)	23.7
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes -----	(X)	3.4	(X)	5.8
970099	All other materials and components, parts, containers, and supplies -----	(X)	240.9	(X)	210.0
971000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> -----	(X)	364.6	(X)	228.6
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE</b>					
	Materials, parts, containers, and supplies -----	(X)	723.7	(X)	633.8
	Mill shapes and forms, except castings:				
	Carbon steel, including wrought iron:				
331012	Sheet and strip ----- 1,000 s tons--	**141.7	72.4	*219.1	80.6
331085	All other carbon steel mill shapes and forms, including tubing ----- do--	106.1	61.7	211.4	73.4
331025	Alloy steel, including stainless ----- do--	(S)	4.9	(S)	3.0
335301	Aluminum and aluminum-base alloy mill shapes and forms:				
335405	Sheet, plate, and foil ----- mil lb--	**27.6	27.4	(S)	9.9
	Extruded shapes, including extruded rod, bar, pipe, tube, etc. ----- do--	**25.9	24.2	(S)	34.7
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.) ----- do--	17.0	18.8	*24.9	17.6
349538	Springs, innerspring units, and box spring constructions ----- 1,000 s tons--	(S)	2.1	(S)	1.6
285101	Paints, varnishes, lacquers, japans, enamels, and allied products -----	(S)	18.2	1.7	8.6
342901	Furniture and builders' hardware, including cabinet hardware, glides, handles, hinges, locks, casters, etc. -----	(X)	30.6	(X)	35.2

See footnotes at end of table.

**Table 7. Materials Consumed by Kind: 1982 and 1977—Con.**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1982 material code	Material	1982		1977	
		Quantity <sup>1</sup>	Delivered cost (million dollars)	Quantity <sup>1</sup>	Delivered cost (million dollars)
<b>INDUSTRY 2514, METAL HOUSEHOLD FURNITURE—Con.</b>					
307905	Plastics products consumed in the form of sheets, rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets	(X)	10.8	(X)	5.5
307951	Plastics furniture parts and components	(X)	15.0	(X)	21.8
307931	Plastics laminated sheets, including decorative sheets	(X)	9.1	(X)	11.7
229508	Coated or laminated fabric for upholstery, including vinyl coated	mil lin yd--	**30.4	35.6	**20.1
307921	Formed and slab stock for pillows, cushion seatings, etc. (urethane)	mil lb--	**15.5	17.4	(S)
229308	Paddings, battings, and fillings, except rubber and plastics foam	do--	**4.4	5.9	**5.3
249200	Particleboard (wood)	mil sq ft (3/4 in basis)--			
265001	Paperboard containers, boxes, and corrugated paperboard	(S)	18.2	(S)	14.6
321101	Flat glass (plate, float, and sheet)	mil sq ft--	(X)	40.0	(X)
970099	All other materials and components, parts, containers, and supplies	(S)	21.6	**22.9	14.4
971000	All other materials, parts, containers, and supplies, n.s.k. <sup>2</sup>	(X)	147.3	(X)	126.9
		(X)	142.5	(X)	101.2
<b>INDUSTRY 2515, MATTRESSES AND BEDSPRINGS</b>					
	Materials, parts, containers, and supplies	(X)	1 010.1	(X)	736.3
242661	Furniture frames, wood	(X)	27.2	(X)	27.7
242620	Hardwood dimension and parts, excluding furniture frames	mil bd ft--	(S)	9.4	*27.4
307903	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	(X)	9.7	(X)	1.3
331012	Carbon steel, including wrought iron mill shapes and forms: Sheet and strip	1,000 s tons--	(S)	1.2	(S)
331085	All other carbon steel mill shapes and forms, including tubing	do--	(S)	19.0	47.7
349538	Core material, excluding padding and topper pads: Springs, innerspring units, and box spring constructions	do--	(S)	181.4	(S)
349535	Constructions (mechanisms) for dual purpose sleep furniture	(X)	21.3	(X)	141.5
300003	Foam core, including urethane	no. of units--	(S)	43.0	(S)
307981	Vinyl bags intended to be water or air filled	do--	183.7	6.0	(X)
221161	Woven upholstery fabrics, excluding ticking and muslin: Cotton	mil lin yd--	(S)	8.8	(S)
222103	Other (rayon, nylon, polyester, etc.)	do--	(S)	34.6	*9.5
221141	Ticking (mattress)	mil bales--	(S)	100.9	(S)
207431	Cotton linters (net weight)	mil lb--	(S)	11.5	(S)
190019	Cotton waste	do--	(S)	2.6	(S)
307982	Padding, foam, except mattress cores	mil bd ft--	(S)	43.1	(X)
190043	Filling materials, purchased premade: Insulators, including urethane foam, cotton pad, natural fiber, synthetic fiber, blend of natural and synthetic fiber, nonwoven, wire, or net insulators	mil lb--	(S)	36.2	(X)
190044	Cushioning, except foam	do--	(S)	4.2	(X)
260091	Paper and paperboard containers	(X)	7.8	(X)	(X)
970099	All other materials and components, parts, containers, and supplies	(X)	133.5	(X)	3156.1
971000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup>	(X)	308.7	(X)	171.9
<b>INDUSTRY 2517, WOOD TV AND RADIO CABINETS</b>					
	Materials, parts, and supplies	(X)	143.3	(X)	148.3
242111	Hardwood lumber, rough and dressed	mil bd ft--	(S)	12.2	46.5
242123	Softwood lumber, rough and dressed	do--	(D)	12.7	3.2
242620	Hardwood dimension and parts, excluding furniture parts	do--	(D)	(D)	(D)
243601	Softwood plywood	mil sq ft (3/8 in basis)--	(D)	(D)	(D)
243511	Hardwood plywood other than container type: Veneer core	mil sq ft (surf meas)--	(S)	7.2	[
243513	Lumber core, including particleboard core	do--	(S)	4.8	3.8
243540	Hardwood veneer	do--	(S)	(S)	5.8
249200	Particleboard (wood)	mil sq ft (3/4 in basis)--	(S)	14.3	2.5
249970	Medium density fiberboard (MDF)	do--	21.0	8.4	7.2
249960	Hardboard (wood fiberboard)	mil sq ft (1/8 in basis)--	(S)	3.7	1.1
285101	Paints, varnishes, lacquers, shellacs, japans, and enamels and allied products	mil gal--	(S)	7.2	2.4
307931	Plastics laminated sheets	(X)	3.2	*2.2	7.9
307905	Plastics products consumed in the form of rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets	(X)	(D)	(X)	1.6
342901	Furniture and builders' hardware, including cabinet hardware, glides, handles, hinges, locks, casters, etc.	(X)	10.1	(X)	11.2
307951	Plastics furniture parts and components	(X)	11.4	(X)	5.3
970099	All other materials and components, parts, containers, and supplies consumed, n.e.c.	(X)	31.2	(X)	51.2
971000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup>	(X)	20.6	(X)	12.4

See footnotes at end of table.

**Table 7. Materials Consumed by Kind: 1982 and 1977—Con.**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text.]

1982 material code	Material	1982		1977	
		Quantity <sup>1</sup>	Delivered cost (million dollars)	Quantity <sup>1</sup>	Delivered cost (million dollars)
	<b>INDUSTRY 2519, HOUSEHOLD FURNITURE, N.E.C.</b>				
	Materials, parts, and supplies .....	(X)	211.9	(X)	159.7
282104	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes .....	mil lb..	*60.2	42.1	35.4
307905	Plastics products consumed in the form of rods, tubes, and other shapes, excluding plastics furniture parts and components, and plastics laminated sheets .....		(X)	17.1	(X)
342901	Furniture and builders' hardware, including cabinet hardware, glides, handles, hinges, locks, casters, etc. ....		(X)	1.0	(X)
307951	Plastics furniture parts and components .....		(X)	8.1	(X)
970099	All other materials and components, parts, containers, and supplies .....		(X)	135.7	(X)
971000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	7.9	(X)
					27.7

<sup>1</sup>For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: \* 10 to 19 percent estimated; \*\* 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

<sup>2</sup>Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

<sup>3</sup>For 1977, material codes 307981, 3079B2, 190043, 190044, and 260091 are included with material code 970099. Padding and filling materials which were collected under old 1977 material code 229308, paddings, battings, and fillings, except rubber and plastics foam, had a value of \$28.4 million.

# APPENDIX A.

## Explanation of Terms

This appendix is in two sections. Section 1 includes items which were requested of all establishments that were mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) that were not included on the report forms but were derived from information collected on the forms. Section 2 covers supplementary items that were requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in tables 3c and 3d of this report.

### **SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS**

**Number of establishments and companies**—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operates at different physical locations, even if the individual locations are producing the same line of goods, a separate report was requested for each location. If the company operates in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on the number of custodial employees, capital expenditures, inventories, or any shipments from inventories during the portion of the year the plant was in operation.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction to Part 1 of the General Summary subject report.

**Employment and related items**—The regular report forms requested separate information on production workers as of a payroll period for each quarter of the year and on other employees as of the payroll period which included the 12th of March.

**All employees**—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period ending nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

**Production workers**—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

**All other employees**—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls was also requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the general summary and geographic area reports and in the final bound volumes as a separate category.

**Payrolls**—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1982. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers

of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

**Production-worker hours**—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

**Cost of materials**—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

**Specific materials consumed**—In addition to the total cost of materials, which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. Information on the specific materials consumed is shown in table 7 if appropriate to the industry. Establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which either administrative records or short forms were used was imputed as "not specified by kind." (See the Introduction for the importance of administrative records in the industry.)

**Value of shipments**—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further

processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

**Individual products**—As in previous censuses, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1982 census program, information was collected on the output of approximately 11,000 individual product items. The term "product," as used in the census of manufactures, represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases it may be much more detailed and, in other cases, it is more aggregative. For example, "pharmaceutical preparations" was distributed into over 100 items; whereas, "motor gasoline" was reported as a single item.

Approximately 6,000 of the product items were listed separately on the 1982 census report forms. Data for about 5,000 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1982 for these items, as derived from the commodity surveys, are shown in the "products shipped" table (table 6a) together with the tieline total value collected in the census for reconciliation purposes.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1977 information is presented for most products.

Typically, both quantity and value of shipments information was collected. However, if quantity was not significant or could not be reported by manufacturers, only value of shipments was collected.

Shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on interplant transfers was also collected. Moreover, for products that are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Other measures of output of products with long production cycles were used as appropriate and feasible.

**Classes of products**—To summarize the product information, the separate products were aggregated into classes of products that, in turn, were grouped into all primary products of each industry. The code structure used is a seven-digit number for the

individual product, a five-digit number for the class of product, and a four-digit number for the total primary products in an industry. (See Introduction, Industry Classification of Establishments, for application of the coding structure to the assignment of SIC codes for establishments.)

In the 1982 census, the 11,000 products were grouped into approximately 1,500 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class and, in some cases, dissimilar products were grouped because the products were not sufficiently significant to warrant separate classes.

**Duplication in cost of materials and value of shipments**—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. With some important exceptions, such as for motor vehicles and parts, this duplication is not significant at the four-digit industry level. However, it is significant at the two-digit and three-digit industry group level because these totals often include industries that represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food" group and the addition of pulp mills to paper mills in the "Paper and Allied Products" group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the census of manufactures.

**Value added by manufacture**—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

Because of the change in instructions for reporting inventories for 1982, the 1982 figure for value added is not strictly comparable to prior-year data. This is explained more fully in the inventories section below.

"Value added" avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

**New and used capital expenditures**—For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures exclude that portion of expenditures leased from nonmanufacturing concerns, new facilities owned by the Federal Government but operated under

contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers were also requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred to the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; i.e., it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form and is subject to sampling error (see table 3d). The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in both tables 3a and 3d. The figure in table 3a is a census universe total and may differ from the results of the ASM sample shown in table 3d. Since the figures in table 3d are subject to sampling error, they are not considered as reliable as the universe figures.

**End-of-year inventories**—Respondents were asked to report their 1981 and 1982 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications. Inventories and value added data estimated on a basis comparable to the historical data, using the reported information for 1982, are shown in footnote 4 of table 1a. However, the end-of-1981 figure shown in this footnote may differ from the corresponding value published as part of the 1981 Annual Survey of Manufactures.

This difference at the four-digit SIC level is due primarily to the effects of industry shifts. As described in the Industry Classification of Establishments section of the Introduction, ASM noncertainty plants are allowed to shift from one industry to another in a census year; whereas, they are "frozen" in a particular industry in ASM years. Other explanations for this difference include the effects of sampling and processing errors and revisions to end-of-1981 data reported by respondents.

In using inventory data by stage of fabrication for "all industries" and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw

materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing," which are aggregates of figures reported by establishments in specified industries.

**Specialization and coverage ratios**—These items are not collected on the report forms but are derived from the data shown in table 5b. An establishment is classified in a particular industry if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

As noted in the Introduction, an establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary

products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). Specialization and coverage ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in tables 1a through 5a and data on product shipments shown in tables 6a through 6c.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

## SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

**Supplemental labor costs**—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records do not generally provide reliable figures on net employee benefits of these types.

**Cost of purchased services**—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery, and communication services. Included in the cost of purchased services for the repair of buildings and machinery are payments made for all maintenance and repair work on buildings and equipment, such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property are also included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract or incurred directly by an establishment in using its own work force are also excluded.

The response coverage ratio shown in table 3d for each of the three types of purchased services listed above is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see section 3) for those ASM establishments that reported the

specific inquiry to the weighted total employment for all ASM establishments classified in the industry.

**Electric energy used for heat and power**—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy and quantity of generated-less-sold electric energy were collected only on the ASM forms. The cost and quantity of purchased electric energy represent the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

**Beginning- and end-of-year depreciable assets**—The data encompass all fixed depreciable assets on the books of establishments at the beginning and at the end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are non-depreciable capital assets, including inventories and intangible assets, such as patent rights and royalties. Also excluded are land and depletable assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

**New and used capital expenditures**—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

**Breakdown of new capital expenditures for machinery and equipment**—ASM establishments were requested to separate their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use, (2) computers and peripheral data processing equipment, and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use that were acquired through a purchase or lease-purchase agreement. Vehicles normally operating off public highways (vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects) are excluded from this item.

The "not specified by kind" or n.s.k. item for expenditures for new machinery and buildings, shown in table 3d, represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories. This means that for most industries the specific categories are understated.

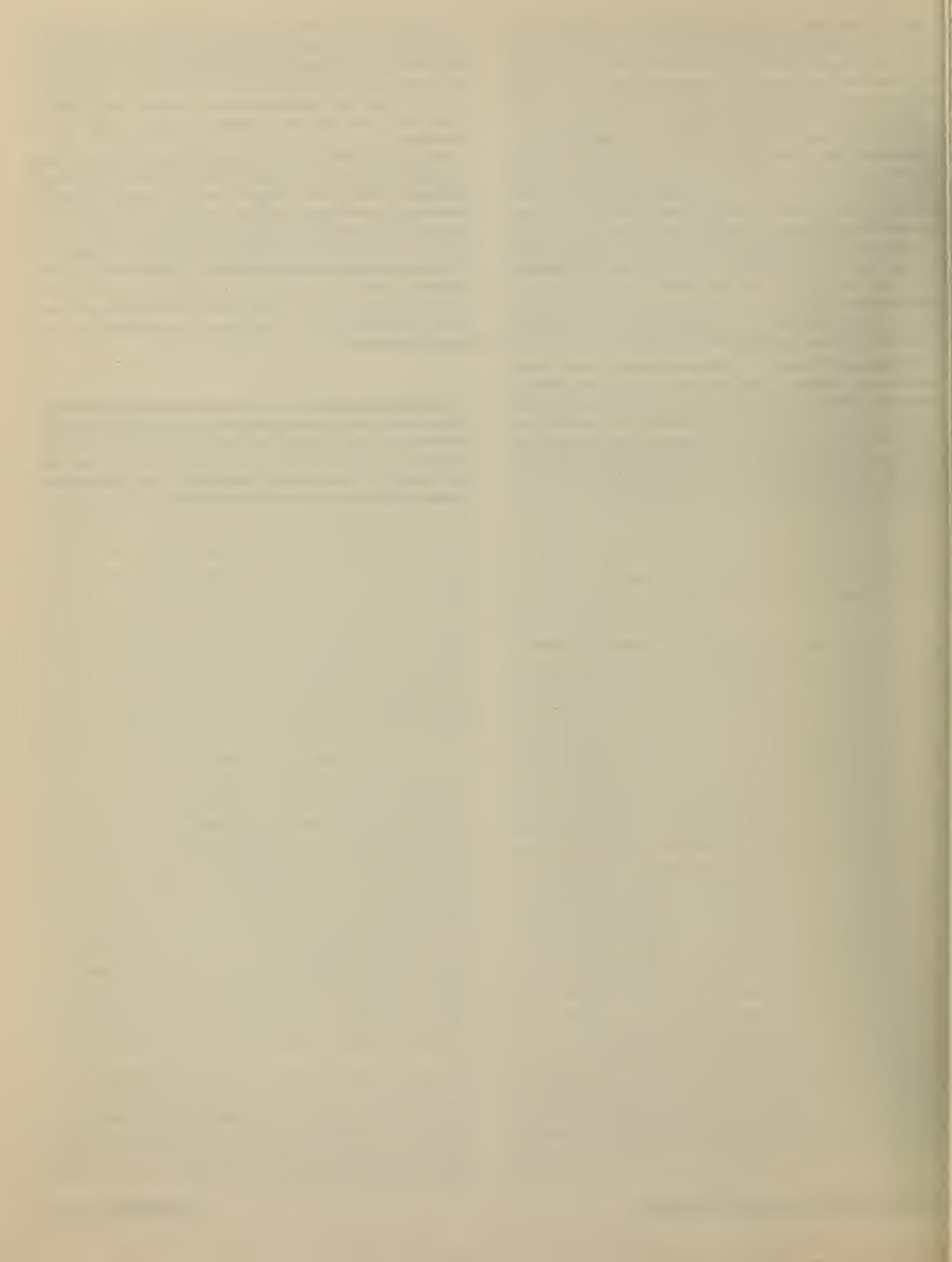
**Retirements**—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent was also requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

**Rental payments**—This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company, and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

**Depreciation charges**—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.



# APPENDIX B.

## Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

### DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 55,000 manufacturing establishments selected from a total of about 225,000 establishments. These 225,000 establishments represent all manufacturing establishments of multiunit companies and all single-unit manufacturing establishments with five employees or more tabulated in the 1977 Census of Manufactures. This mail portion is supplemented by a Social Security Administration list of new manufacturing establishments opened after 1977. The individual establishments were defined as the sampling unit for this sample. This is a change from the previous ASM sample when companies were used as the sampling unit. The implication of this change is that the probability of selection of any establishment relates only to the size of the establishment itself and is independent of the size of the company with which the establishment is affiliated. The efficiencies associated with the change to an establishment sample have made it possible to reduce the mail sample panel from 70,000 establishments in 1978 to 55,000 establishments in the current panel.

The nonmail portion of the survey includes all single-unit establishments that were tabulated with less than five employees in the 1977 Census of Manufactures. Although this portion contained approximately 125,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of other Federal agencies. This administrative record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under special conditions, which safeguard the confidentiality of both tax and census records. Estimates for data for these small establishments were developed using industry averages in conjunction with the administrative information.

The corresponding estimates for the mail and nonmail establishments were added together, along with the adjusted base-year differences as defined in Description of Estimating Procedures below. The remaining description of the survey sample relates only to the mail portion of the ASM sample.

All establishments with 250 employees or more in the 1977 census were included in the survey panel with certainty. These establishments collectively account for approximately 65 percent of the total value of shipments for manufacturing establishments in the 1977 census. Smaller establishments were sampled with probabilities ranging from 1.000 down to 0.005 in accordance with mathematical theory for optimum allocation of a sample.

The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. For establishments included in the 1977 Census of Manufactures, the measure of size depended directly upon each establishment's 1977 product class values and the

historic variability of the year-to-year shipments of each product class. Roughly equivalent measures of size were assigned to postcensus birth establishments based on their industry codes and anticipated payroll and employment.

The method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other general statistics, for these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of establishments into and out of a given sample panel without introducing a bias into the survey estimates.

### DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1978-1981 were computed using a modified "difference estimate" formula. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1977 census published number for an item total and the linear ASM estimate of the total for 1977. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

This base-year difference was then adjusted to reflect the estimated growth at the four-digit or, in the case of product classes, five-digit based Standard Industrial Classification (SIC) level from 1977 to the year of the survey; for example, 1981. It should be noted that due to processing constraints, the growth factors lagged one year; i.e., if 1981 is the survey year, they were not based on the estimated growth from 1977 to 1981 but rather the growth from 1977 to 1980. This one-year lag had negligible effect on the estimates, particularly at the total manufacturing level where the adjusted base-year difference accounted for less than 1 percent of the estimate for total value of shipments.

These adjusted base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1978-1981. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

The 1982 sample data included in table 3d were also developed using difference estimates. However, since the universe totals for the census year (1977 or 1982) were not known, a modification of the procedure described above was necessary. For each item in table 3d, except purchased services and breakdown of expenditures for new machinery and equipment (see further description in appendix A, section 2), linear

estimates of the publication totals from the ASM mail sample were adjusted by the difference between imputed census totals and the corresponding ASM mail sample estimates of these imputed totals. These imputed totals are obtained by applying industry average ratios to control item values at the establishment level. For example, an imputed total beginning assets figure is obtained by multiplying each establishment's total value of shipments by the industry (four-digit SIC) average for the ratio of beginning assets to shipments.

Separate estimates for the nonmail establishments were not developed. However, their contribution to the publication estimates is reflected in the difference adjustment.

The method of inventory valuation percentages included in table 3c was developed using both complete census information and ASM estimates. The percentages for the four major categories (LIFO, non-LIFO, valuation method not reported, and LIFO reported without associated value and reserve) were derived from the complete census and correspond to the values included in table 3d. The percentages for the specific non-LIFO methods of valuations (FIFO, average cost, specific costs, etc.) are ratio estimates developed from the ASM in conjunction with the census universe estimate for the total of the non-LIFO methods.

## QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. Except for table 3c, they are presented in the form of relative standard errors, the standard errors divided by the estimated values to which they refer. In table 3c, "absolute" standard errors of the estimates are presented.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

2. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total and about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors would also occur if a complete canvass were to be conducted under the same conditions as the survey.

Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

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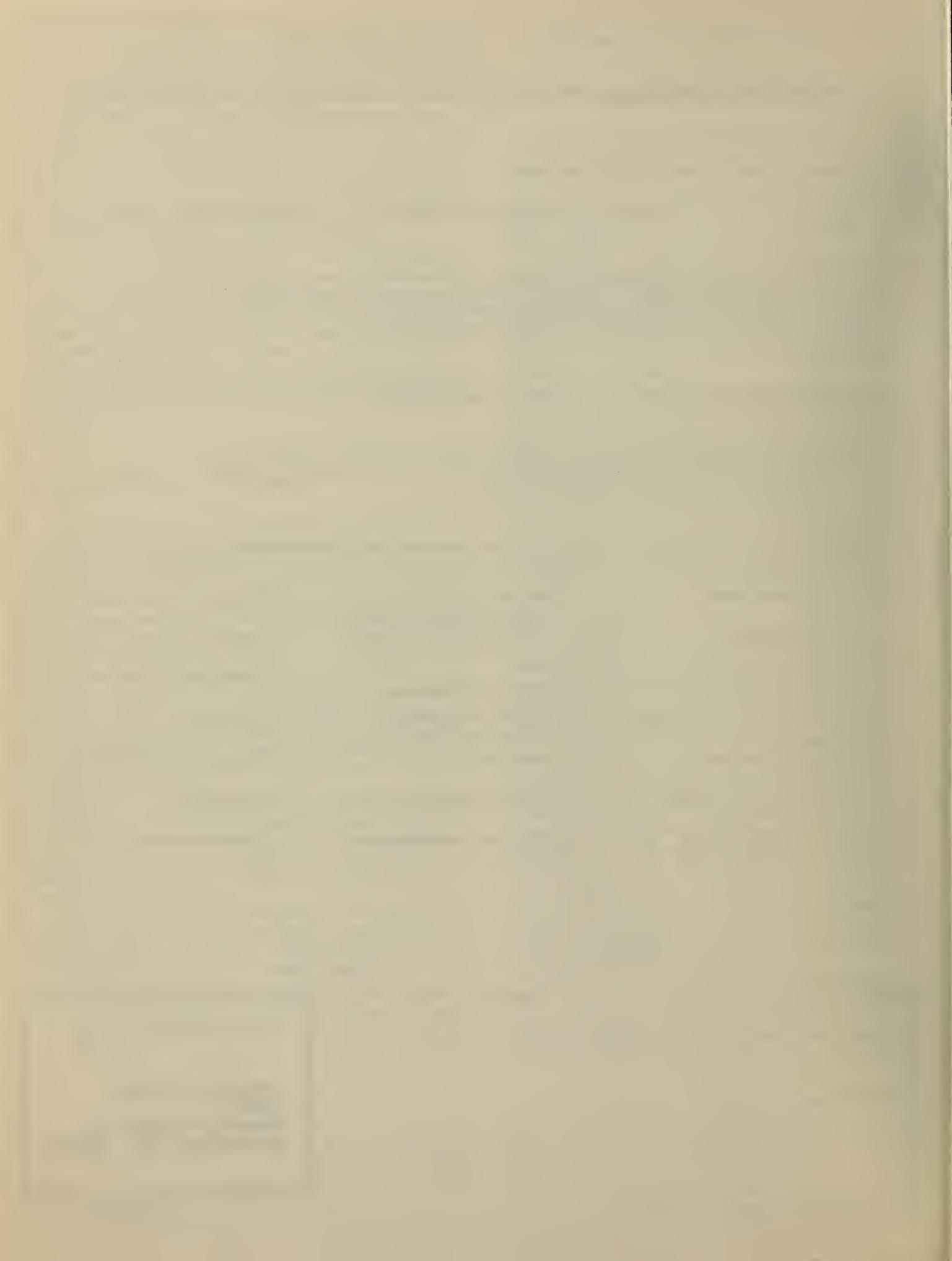
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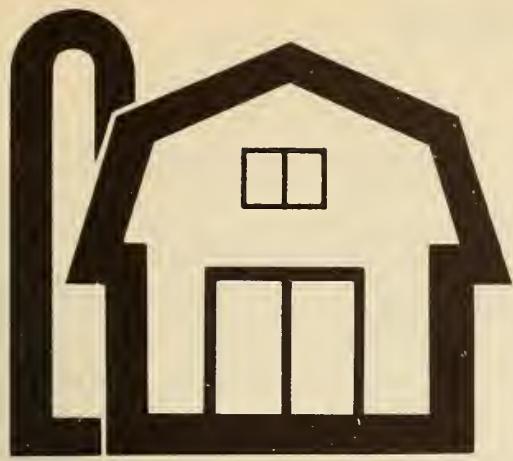
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1860-1861-1862

# PUBLICATION PROGRAM

## 1982 CENSUS OF MANUFACTURES

Publications of the 1982 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publication order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

### Preliminary Reports

Preliminary industry data are issued in 443 separate reports covering 452 industries (or combinations of industries). Preliminary data for States are grouped and released in reports for each of the nine census geographic divisions.

### Final Reports

Final detailed statistics are issued in separate paperbound reports.

#### Industry series—82 reports (MC82-I-20A to -39D)

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#### Subject series—10 reports (MC82-S-1 to -10)

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operations, manufacturing activity in government establishments, concentration ratios in manufacturing, type of organization, water use in manufacturing, fuels and electric energy consumed (separate publications for industry statistics, and State and SMSA statistics), textile machinery in place, production indexes, and a general National-level summary.

### Final Report Volumes

Final paperbound reports subsequently are assembled and reissued in clothbound volumes.

- Volume I. Summary and Subject Statistics—data previously issued in series MC82-S.
  - Part 1. Major Groups 20 to 26
  - Part 2. Major Groups 27 to 34
  - Part 3. Major Groups 35 to 39
- Volume II. Industry Statistics—data previously issued in series MC82-I.
  - Part 1. Alabama to Montana
  - Part 2. Nebraska to Wyoming

### Microfiche

All published data also are available on microfiche.

### Computer Tapes

Selected data—generally detailed information by industry and/or geographic area—also are available on public-use computer tapes. For the selected data, these tapes will provide the same information found in the final reports. Public-use computer tapes are available for users who wish to summarize, rearrange, or process large amounts of data. These tapes, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, D.C. 20233.

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Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, enterprise statistics, minority-owned businesses, women-owned businesses, and transportation also are issued as part of the 1982 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. All published reports and microfiche are sold by the Superintendent of Documents, U. S. Government Printing Office. Appropriate announcements and order forms describing these products are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

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